



Océ Wide-Format Printing

Connectivity Manual





Océ-Technologies B.V.

This manual contains a description of how the Océ Wide Format Printing are connected to the network using various connection types and how to connect a workstation to an Océ TDS-TCS Digital Multifunctional System or an Océ ColorWave 600.

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Chapter 1

Introduction

This chapter gives an introduction to the protocols, connections and printing solutions for the Océ Wide-Format Printing systems.



Supported transport and printing protocols

Océ TDS/TCS systems

The Océ TDS/TCS systems support the following *transport* protocols:

- TCP/IP
- IPX/SPX
- NetBeui (only for NT-based TDS)

The Océ TDS/TCS systems support the following *printing* protocols:

- LPD, FTP
- Pserver (Bindery and NDS)
- Only for TDS:
SMB printing (also known as LAN Manager or Windows networking) on top of Netbios over NetBeui, TCP/IP or IPX/SPX.

Océ ColorWave 600 systems

The Océ ColorWave 600 systems support the following *transport* protocol:

- TCP/IP

The Océ ColorWave 600 systems support the following *printing* protocols:

- LPR
- FTP

Compatibility matrix

You must use the Océ WPD or PS3 driver with the Océ TCS or Océ ColorWave 600 printers.

For the Océ TDS400, Océ TDS600 or Océ TDS800 printer, make sure that you are installing a driver compliant with your TDS version. To do so, check your printer controller version. Then, see the compatibility matrix to know which driver is optimised with your printer and operating system.

~ **Check your Océ TDS printer version**

- 1 On the controller, open the System Control Panel.
- 2 Open the Help.
- 3 Click 'About' to find the Océ printer version.

~ **Check your Océ TDS printer version on systems with no screen**

- 1 From your Océ TDS printer System Control Panel, make sure you are off-line.
- 2 Select the 'System' menu.
- 3 In that menu, select 'Print settings' to print the dump configuration.
- 4 Press the On-line button to launch the printing.
- 5 On the printout, check the 'Release number controller'.

Note: This number is usually found on the last page of the printout.

- 6 Result:
 - If the release number is below 6.1.x, your Océ TDS printer requires the PS3 driver.
 - If the release number is 6.1.x or higher:
 - your Océ TDS400 is v1.4.3 or higher.
 - your Océ TDS600 is v3.2.3 or higher.
 - your Océ TDS800 is v1.3.3 or higher.

Then, it is highly recommended to use the WPD driver. See table below:

See the compatibility table to know which driver to install:

Printer	Windows 2000/XP/Server 2003 - 32bit	Windows XP/Server 2003 - 64bit (limitation: ^{a)})	Windows Vista - 32bit (limitations: ^{b c d})	Windows Vista - 64bit (limitation: ^e)
<i>Océ TCS300</i>	+ Terminal Server, Citrix Metaframe: WPD, PS3, HDI	WPD	WPD, PS3, HDI	WPD
<i>Océ TCS400</i>	+ Terminal Server, Citrix Metaframe: WPD, PS3, HDI	WPD	WPD, PS3, HDI	WPD
<i>Océ TCS500</i>	+ Terminal Server, Citrix Metaframe: WPD, PS3, HDI	WPD	WPD, PS3, HDI	WPD
<i>Océ TDS300</i>	+ Terminal Server, Citrix Metaframe: WPD, PS3, HDI	WPD	WPD, PS3, HDI	WPD
<i>Océ TDS320</i>	+ Terminal Server, Citrix Metaframe: WPD, PS3, HDI	WPD	WPD, PS3, HDI	WPD
<i>Océ TDS400 v1.0 to v1.4</i>	PS3, HDI	-	PS3, HDI	-
<i>Océ TDS400 v1.4.3 and higher</i>	+ Terminal Server, Citrix Metaframe: WPD, PS3, HDI	WPD	WPD, PS3, HDI	WPD
<i>Océ TDS450</i>	+ Terminal Server, Citrix Metaframe: WPD, PS3, HDI	WPD	WPD, PS3, HDI	WPD
<i>Océ TDS600 v2.0 to v3.2</i>	PS3, HDI	-	PS3, HDI	-
<i>Océ TDS600 v3.2.3 and higher</i>	+ Terminal Server, Citrix Metaframe: WPD, PS3, HDI	WPD	WPD, PS3, HDI	WPD
<i>Océ TDS700</i>	+ Terminal Server, Citrix Metaframe: WPD, PS3, HDI	WPD	WPD, PS3, HDI	WPD
<i>Océ TDS800 v1.0 to v1.3</i>	PS3, HDI	-	PS3, HDI	-
<i>Océ TDS800 v1.3.3 and higher</i>	+ Terminal Server, Citrix Metaframe: WPD, PS3, HDI	WPD	WPD, PS3, HDI	WPD

Printer	Windows 2000/XP/Server 2003 - 32bit	Windows XP/Server 2003 - 64bit (limitation: ^a)	Windows Vista - 32bit (limitations: ^{b c d})	Windows Vista - 64bit (limitation: ^e)
<i>Océ TDS860</i>	+ Terminal Server, Citrix Metaframe: WPD, PS3, HDI	WPD	WPD, PS3, HDI	WPD
<i>Océ ColorWave 600</i>	+ Terminal Server, Citrix Metaframe: WPD (from 1.15.1), PS3 (from 1.13.1)	WPD (from 1.15.1)	WPD (from 1.15.1), PS3	WPD (from 1.15.1)

- a. From WPD 1.15 (no back-channel, no advanced accounting).
Full support from WPD 1.16.
- b. WPD: from WPD 1.15 (no Windows Vista logo)
Full support from WPD 1.16.
- c. PS3: from PS3 1.14.
- d. HDI: from AutoCAD 2008.
- e. From WPD 1.15 (no Windows Vista logo, no back-channel, no advanced accounting).
Full support from WPD 1.16.

Physical connections

Océ TDS/TCS systems

With the Océ TDS/TCS the following networking boards are available:

- Standard: Ethernet (UTP) 10Mb/s, 100Mb/s and 1Gb/s with RJ45 connector
- Optional: Ethernet board with 3 connectors (for NT-based TDS400, TDS600 and TDS800):
 - RJ45 (10 Mbit only)
 - AUI
 - BNC
- Optional: Token-Ring board with 2 connectors (for TDS3x0, TDS400, TDS600, TDS8x0 and TCS400 only):
 - RJ45 (10 Mbit only)
 - 9 pin DB9

Océ ColorWave 600 systems

With the Océ ColorWave 600 the following networking board is available:

- Standard: Ethernet (UTP) 10Mb/s, 100Mb/s and 1Gb/s with RJ45 connector

Network printing architectures

Depending on your network architecture, multiple printing solutions are available for each supported operating system.

Basically there are two main configuration types:

- Client / Server configuration.
- Peer to peer configuration.

Client / Server configuration

In this configuration, the printing resources administration is centralized. The client workstation is connected to a print server linked to the print system (controller). Recommended for large scale LAN's.

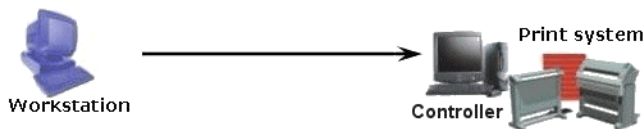
Client /Server configuration



Peer to peer configuration

In this configuration, the client workstation is directly connected to the print system (controller). Recommended for small LAN's.

Peer to peer configuration



Chapter 2

Windows TCP/IP Environment (2000/XP/Server 2003/Vista)



Introduction

This chapter describes the configuration of printing and scanning in a Windows TCP/IP environment:

- How to setup the Océ TDS/TCS controller.
- How to setup the Océ ColorWave 600 controller.
- How to install a dedicated Print Server and a client workstation in order to work in a Client/Server configuration.
- How to configure the client workstation in a Peer to peer configuration.
- How to print using FTP protocol.
- How to configure Scan to File.

Network printing architectures

Depending on your network architecture, multiple printing solutions are available for each supported operating system.

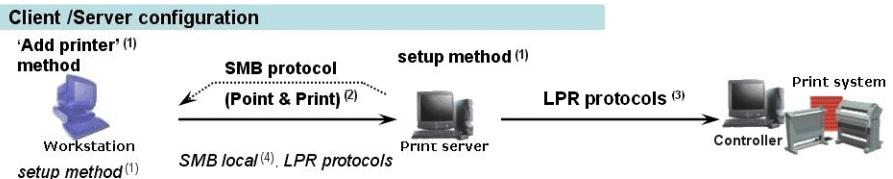
Basically there are two main configuration types:

- Client / Server configuration.
- Peer to peer configuration.

Client / Server configuration

In this configuration, the printing resources administration is centralized. The client workstation is connected to a print server linked to the print system (controller).

Recommended for large scale LAN's.



In bold: Océ recommended configuration
In italics: possible configuration but not recommended

Where:

(1) is the method to apply for the driver installation (see the drivers User Manual).

(2) SMB 'Point and Print' is the Océ recommended connection to the print server. Advantages:

- No installation CD is necessary.
- Important gain of time on driver upgrading in large networks. The driver needs to be upgraded manually on the print server only, and the workstations drivers are then automatically upgraded.
- The same version of the driver is available and used by all workstations users.

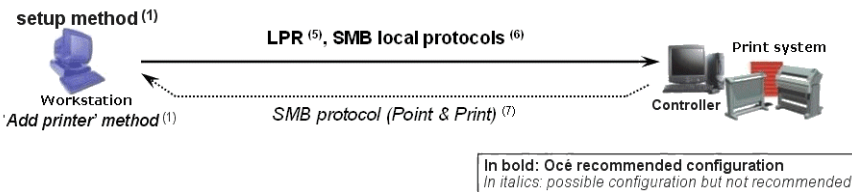
(3) Océ recommended connection to the print system. It is compatible with the 'High' and 'Medium' security levels (Océ TDS/TCS systems only).

(4) this connection type does not have the advantage of (2) 'Point and Print'.

Peer to peer configuration

In this configuration, the client workstation is directly connected to the print system (controller). Recommended for small LAN's.

Peer to peer configuration



Where:

(1) is the method to apply for the driver installation (see the drivers User Manual).

(5) Océ recommended connection to the print system. It is compatible with the 'High' and 'Medium' security levels (Océ TDS/TCS systems only).

(6) Not recommended because:

- the driver installation is more complicated.
- it is not compliant with the 'High' and 'Medium' security levels (TDS/TCS systems only).

(7) SMB 'Point and Print' is not recommended by Océ because the driver upgrade is not possible on the TDS/TCS print system nor on the workstation.

Note: *SMB 'Point and Print' is not available on the Océ TCS500, Océ TCS300, Océ TDS700, Océ TDS450 and Océ ColorWave 600 print systems.*

Network environments

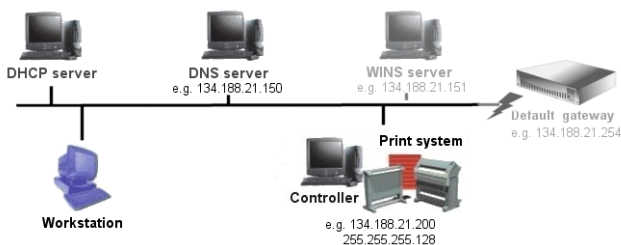
There are 2 main network environment types:

- The Enterprise network environment (with DNS server).
- The Small Office / Home Office (SOHO) network environment (without DNS server).

According to your network environment, follow the recommendations below to set up your print system controller.

Enterprise network environment

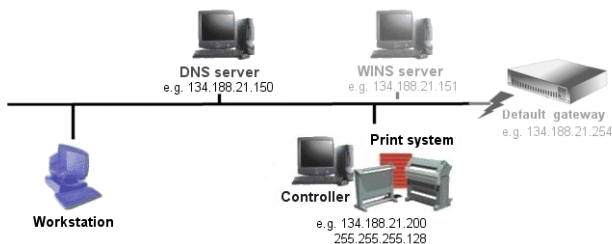
1 LAN with DNS and DHCP servers (for Enterprise or modern SOHO networks)



a- If the DHCP server supplies all information (DNS, WINS, Default Gateway), enable DHCP on the controller.

b- If some information is not supplied, configure the missing TCP/IP addresses manually (e.g. DNS, WINS...).

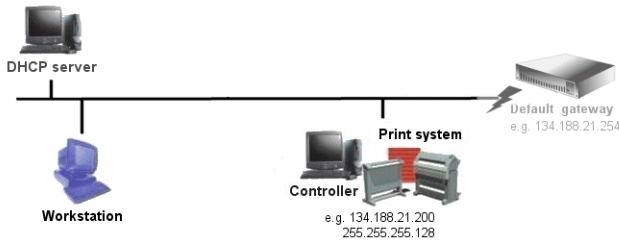
2 LAN with DNS server but without DHCP server (former enterprise network)



Disable DHCP on the controller and configure all the TCP/IP addresses manually.

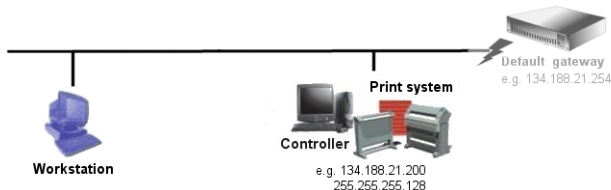
Small Office / Home Office network environment

3 LAN without DNS server but with DHCP server (former SOHO network)



- a- If the DHCP server supplies all information (Default Gateway), enable DHCP on the controller.
- b- If some information is not supplied, configure the missing TCP/IP addresses manually (e.g. Default Gateway).
- c- Enable SMB or NetBios over TCP/IP for Scan to File via SMB (Océ TDS/TCS systems only).

4 LAN without DNS nor DHCP servers (former SOHO networks, rare)



In case of fixed IP addresses:

- a- Disable DHCP and configure all TCP/IP addresses manually.
- b- Enable SMB, or NetBios over TCP/IP, for Scan to File via SMB (Océ TDS/TCS systems only).

In case of APIPA (Automatic Private IP Addressing - range: 169.254.0.1 - 169.254.255.254 - only on XPe):

- a- Configure the missing TCP/IP addresses manually (e.g. Default Gateway).
- b- Enable SMB or NetBios over TCP/IP for Scan to File via SMB (Océ TDS/TCS systems only).

Configure the print system controller

Configure the TCP/IP settings (all Océ TDS/TCS systems - except Océ TCS300 and ColorWave 600)

According to your network configuration (with or without DHCP), 3 contexts of configuration are possible:

- The DHCP server configures automatically all the TCP/IP settings.
- There is no DHCP server available: configure the TCP/IP settings manually (see procedures below).
- The DHCP server configures the IP address and Subnet mask only: configure the other settings (TCP/IP, WINS, DNS... parameters) manually.

The following sections explain how to:

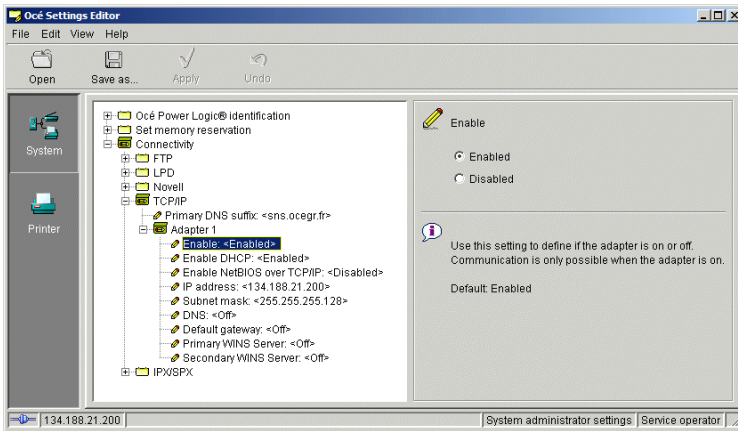
- enable TCP/IP protocol on the network adapter,
- enable DHCP,
- setup TCP/IP parameters,
- configure WINS server address,
- configure DNS parameters,
- enable NetBios over TCP/IP (Océ TCS500 v1.2 and higher, Océ TDS700 and Océ TDS450 v3.1 and higher),
- define the host name,
- set the link speed / Duplex mode,
- ... on the Océ PLC controller.

Note: *For the Océ TDS700, see 'Configure the TCP/IP settings (Océ TDS700)' section on page 33. Although the functionalities are identical, the user interface differs from the other TDS/TCS systems.*

Enable TCP/IP Protocol on the network adapter

Note: *You MUST be logged on as a system administrator.*

- 1 Switch the Océ Settings Editor in SA Mode (see page 257).
- 2 Expand the 'Connectivity' folder.
- 3 Expand the 'TCP/IP' folder.
- 4 Expand the 'Adapter_x' folder (x = the number of the adapter to configure).
In our example x = 1.
- 5 Select 'Enable' document.
- 6 Select 'Enabled' on the right window ('Enable').
- 7 Click 'Apply':



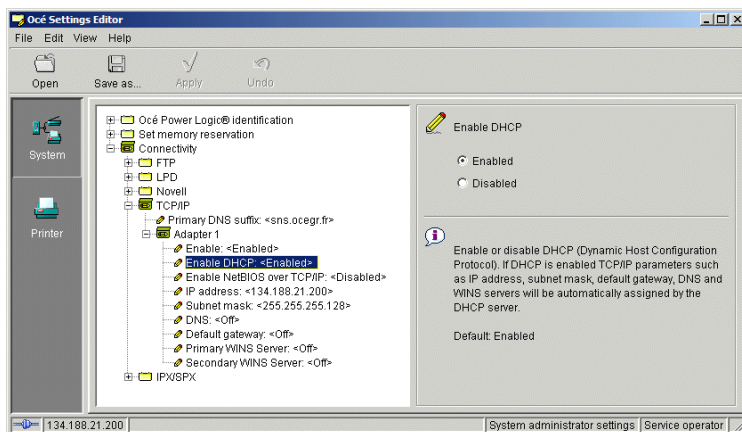
- 8 You are proposed to reboot the controller: either, click 'OK' and continue the other parameters setup, or, once all the setups are done, reboot the controller (see 'Reboot the controller' section on page 259).

Enable DHCP

Note: *You MUST be logged on as a system administrator.*

Note: *When DHCP is enabled, you cannot configure the TCP/IP and 'Subnet mask' parameters manually on the controller.*

- 1 Switch the Océ Settings Editor in SA Mode (see page 257).
- 2 Expand the 'Connectivity' folder.
- 3 Expand the 'TCP/IP' folder.
- 4 Expand the 'Adapter_x' folder (x = the number of the adapter to configure).
In our case x = 1 for Adapter1.
- 5 Select the 'Enable DHCP' document.
- 6 Select 'Enabled' on the right window ('Enable DHCP') and click 'Apply'.



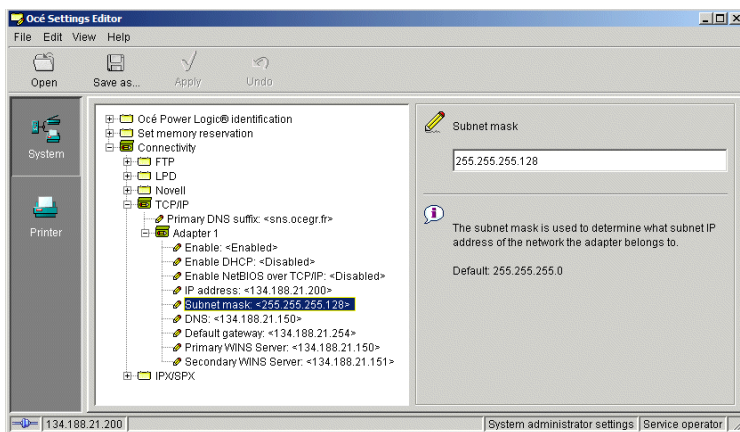
- 7 You are proposed to reboot the controller: either, click 'OK' and go on with the other parameters setup, or, once all setups are done, reboot the controller (see 'Reboot the controller' on page 259).

Configure TCP/IP parameters (IP address, Subnet mask)

Note: *You MUST be logged on as a system administrator*

Note: *You can configure 'IP address' and 'Subnet mask' manually only if DHCP is disabled.*

- 1 Switch the Océ Settings Editor in SA Mode (see page 257).
- 2 Expand the 'Connectivity' folder.
- 3 Expand the 'TCP/IP' folder.
- 4 Expand the 'Adapter_x' folder (x = the number of the adapter to configure).
In our example, x = 1 for Adapter1.
- 5 Select 'IP address' document and type in the IP address (e.g. 134.188.21.200) into the input field in the right window.
- 6 Select the 'Subnet mask' document and type in the Subnet mask (e.g. 255.255.255.128) into the input field in the right window.
Note: *According to the Settings Editor version, you can find 'IP mask' instead of 'Subnet mask'.*
- 7 Click 'Apply'.



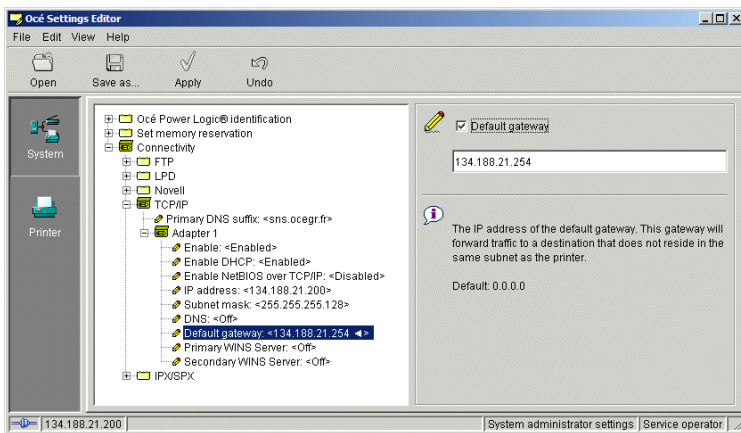
- 8 You are then proposed to reboot the controller: either, click 'OK' and go on with the other parameters setup, or, once all the setups are done, reboot the controller (see 'Reboot the controller' on page 259).

Configure the Default gateway

Note: You *MUST* be logged on as a system administrator.

Note: If DHCP is enabled, the Default gateway is automatically assigned and shown as <Off>. If needed, follow the procedure below to change it.

- 1 Switch the Océ Settings Editor in SA Mode (see page 257).
- 2 Expand the 'Connectivity' folder.
- 3 Expand the 'TCP/IP' folder.
- 4 Expand the 'Adapter_x' folder (x = the number of the adapter to configure).
In our example, x = 1 for Adapter1.
- 5 Select 'Default gateway' to display the input field in the right window.
- 6 Define the Default gateway:
 - If DHCP is disabled, type in the Default Gateway (e.g. 134.188.21.254)
 - If DHCP is enabled, check the 'Default gateway' box to be able to define it manually, and type in the Default Gateway (e.g. 134.188.21.254)



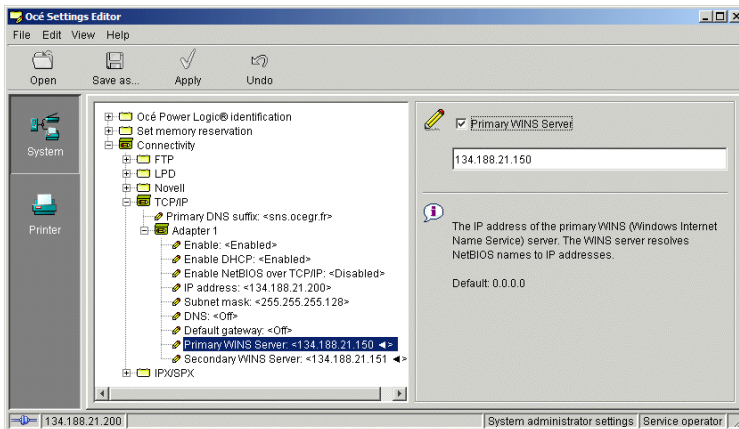
- 7 Click 'Apply'. You are then proposed to reboot the controller: either, click 'OK' and go on with the other parameters setup, or, once all the setups are done, reboot the controller (see 'Reboot the controller' on page 259).

Configure the WINS server address

Note: You *MUST* be logged on as a system administrator.

Note: If DHCP is enabled, the WINS server address is automatically assigned and shown as <Off>. If needed, follow the procedure below to change it.

- 1 Switch the Océ Settings Editor in SA Mode (see page 257).
- 2 Expand the 'Connectivity' folder.
- 3 Expand the 'TCP/IP' folder.
- 4 Expand the 'Adapter_x' folder (x = the number of the adapter to configure).
In our example, x = 1 for Adapter1.
- 5 Select 'Primary WINS Server' to display the input field in the right window.
- 6 Define the 'Primary WINS Server':
 - If DHCP is disabled, type in the 'Primary WINS Server' address.
 - If DHCP is enabled, check the 'Primary WINS Server' box to be able to define it manually, and type in the 'Primary WINS Server' address.
- 7 Select 'Secondary WINS Server' document and enter the Secondary WINS Server address in the right window.



- 8 Click 'Apply'.
- 9 You are then proposed to reboot the controller: either, click 'OK' and go on with the other parameters setup, or, once all the setups are done, reboot the controller (see 'Reboot the controller' on page 259).

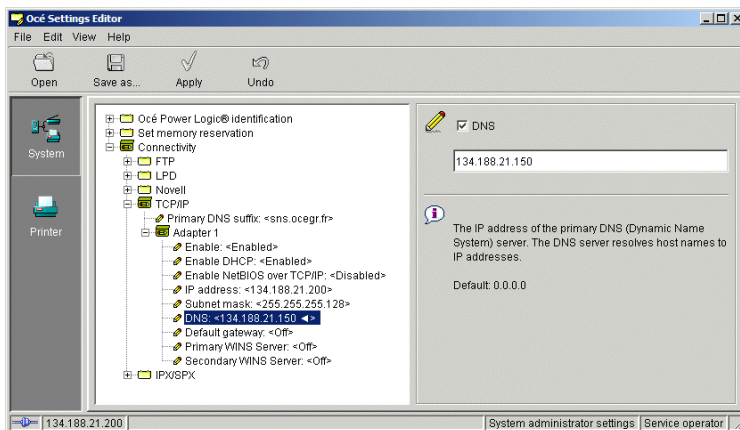
~

Configure DNS parameters (Primary DNS suffix, DNS Server address)

Note: You *MUST* be logged on as a system administrator.

Note: If DHCP is enabled, the DNS server address is automatically assigned and shown as <Off>. If needed, follow the procedure below to change it.

- 1 Switch the Océ Settings Editor in SA Mode (see page 257).
- 2 Expand the 'Connectivity' folder.
- 3 Expand the 'TCP/IP' folder and select 'Primary DNS suffix'.
Note: According to the Settings Editor version, you can find 'Domain' instead of 'Primary DNS suffix'.
- 4 Enter the Primary DNS suffix in the right window.
- 5 Expand the 'Adapter_x' folder (x = the number of the adapter to configure).
In our example, x = 1 for Adapter1.
- 6 Select 'DNS' to display the input field in the right window.
- 7 Define the 'DNS' server address:
 - If DHCP is disabled, type in the 'DNS' address (e.g. 134.188.21.150).
 - If DHCP is enabled, check the 'DNS' box to be able to define it manually, and type in the 'DNS' address.
- 8 Click 'Apply'.

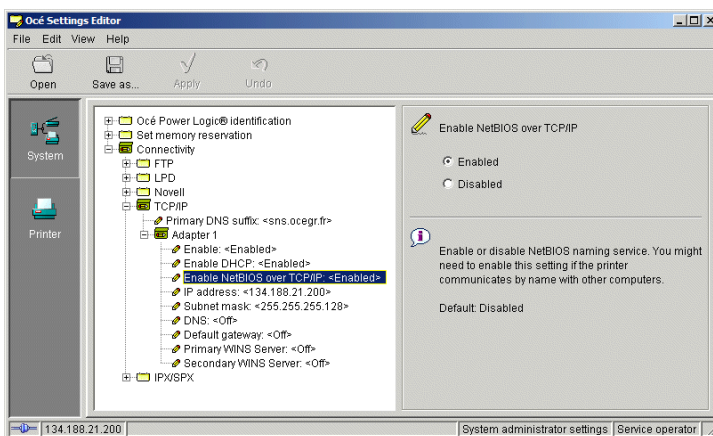


- 9 You are then proposed to reboot the controller: either, click 'OK' and go on with the other parameters setup, or, once all the setups are done, reboot the controller (see 'Reboot the controller' on page 259).

Enable NetBios over TCP/IP (for Océ TCS500 v1.2 and higher, Océ TDS450 v3.1 and higher, and Océ TDS700)

Note: *You MUST be logged on as a system administrator.*

- 1 Switch the Océ Settings Editor in SA Mode (see page 257).
- 2 Expand the 'Connectivity' folder.
- 3 Expand the 'TCP/IP' folder.
- 4 Expand the 'Adapter_x' folder (x = the number of the adapter to configure).
In our example, x = 1 for Adapter1.
- 5 Select 'Enable NetBios over TCP/IP'.
- 6 Select 'Enabled' on the right window ('Enable NetBios over TCP/IP')



- 7 Click 'Apply'.

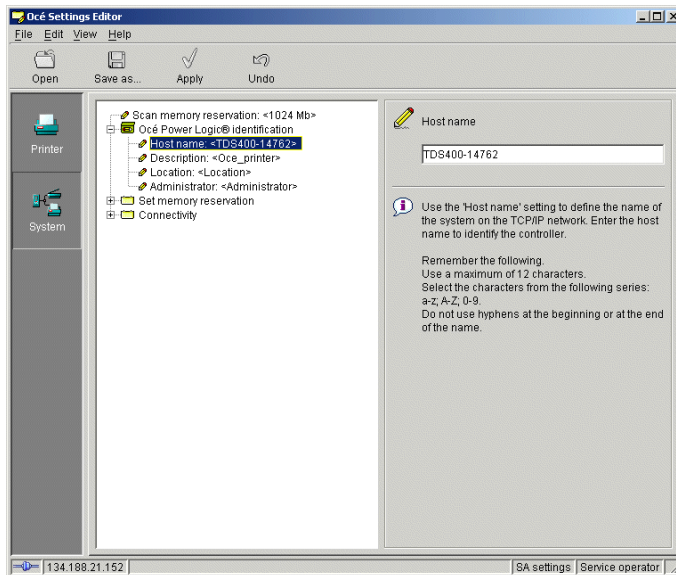
~

Define the Océ TDS/TCS host name

Note: *You MUST be logged on as a system administrator.*

Note: *The host name is needed to create the LPR port or to configure the SMB connection.*

- 1 Switch the Océ Settings Editor in SA Mode (see page 257).
- 2 Expand the 'Océ Power Logic® Identification' folder.
- 3 Select 'Host name'.
- 4 Type in the new Host name in the input field.
- 5 Click 'Apply'.

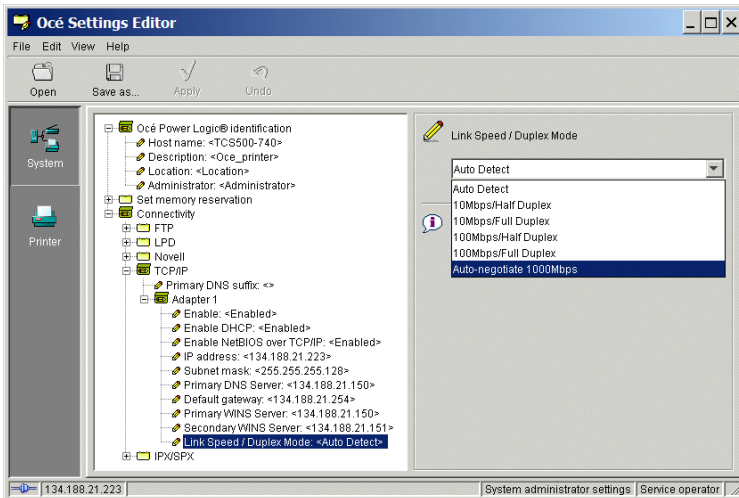


- 6 You are proposed to reboot the controller: click 'OK' and either go on with the other parameters setup, or, once all setups are done, reboot the controller (see 'Reboot the controller' section on page 259).

Set Link Speed / Duplex Mode of the network adapter

Note: *You MUST be logged on as a system administrator.*

- 1 Switch the Océ Settings Editor in SA Mode (see page 257).
- 2 Expand the 'Connectivity' folder.
- 3 Expand the 'TCP/IP' folder.
- 4 Expand the 'Adapter_x' folder (x = the number of the adapter to configure).
In our example, x = 1 for Adapter1.
- 5 Select 'Link Speed / Duplex Mode' from the drop down list.
Note: *'Auto-negotiate 1000Mbps' value is available only if the network adapter supports that speed.*
- 6 Click 'Apply'.



Océ TDS700 specificities

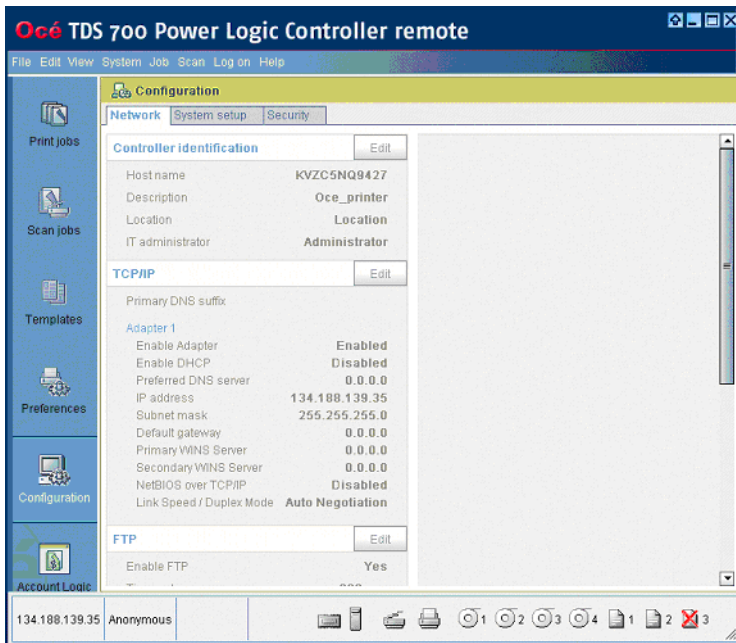
In the new controller interface of the Océ TDS700, the TCP/IP settings are the same as for the other Océ TDS/TCS systems.

Follow the procedure below to configure the TCP/IP settings:

~

Configure the TCP/IP settings (Océ TDS700)

- 1 Log on as a System Administrator.
- 2 Open the 'Configuration' menu and select the 'Network' tab.
- 3 Click 'Edit' (on TCP/IP, FTP... section) to access the settings.
- 4 When the settings are configured, click 'OK'.



Configure the TCP/IP settings (Océ TCS300 and Océ ColorWave 600 systems)

The Océ TCS300 and the Océ ColorWave 600 are guiless systems, without SMB printing protocol available.

When an Océ TCS300 or an Océ ColorWave 600 system is plugged to the network, only a few network settings are available on the Printer Operator Panel through the 'Installation' wizard.

The complete list of TCP/IP settings is accessible via the Océ Express WebTools (DHCP mode, DNS servers addresses, WINS servers, IP address, IP subnet mask, Gateway address,...)

By default on the Océ TCS300 and the Océ ColorWave 600, 'DHCP' is enabled and 'NetBios over TCP/IP' is disabled.

Océ TCS300 / Océ ColorWave 600 integration in an Enterprise Network environment (with DNS server / with or without a DHCP server)

See the two Enterprise Network environments described in ‘Enterprise network environment’ section on page 21.

Such environments can be either:

- **with** a **DNS** server and **with** a **DHCP** server, or
- **with** a **DNS** server and **without** a **DHCP** server.

In both cases, the Océ TCS300 or the Océ ColorWave 600 have been declared in the infrastructure with:

- a Hostname
- an IP address.

~

Integrate the Océ TCS300 / Océ ColorWave 600 in an Enterprise Network

- 1 Connect the Océ TCS300 / Océ ColorWave 600 to the network, and power ON it.
- 2 On the Printer Operator Panel, enter in the ‘Configure System’ menu and select ‘Network settings adapter 1’.
(See the Océ TCS300 or the Océ ColorWave 600 User Manual)
- 3 Check the current network settings and update them if necessary:
 - If IP address corresponds to the IP address declared in the IT infrastructure, this means the Océ TCS300 / Océ ColorWave 600 has been recognized in the network infrastructure.
Check also the other network parameters and update them if necessary.
 - If IP address does not correspond, you have to configure all the network parameters on the Printer Operator Panel using the ‘Installation’ wizard.

Note: *After an update of network settings, you may be invited to reboot the Océ system.*
- 4 Once network settings seen on the Printer Operator Panel comply with the network infrastructure, open a web browser on a client workstation and enter the following URL to access the Océ Express WebTools:
`http://<TCS300 IP-ADDRESS>` or `http://<Océ ColorWave 600 IP-ADDRESS>`
- 5 Within the Océ Express WebTools, you can configure the other settings.
Configure the ‘hostname’ in order to be able to address the Océ TCS300 / Océ ColorWave 600 with its hostname rather than its IP address (since it is more convenient, and independent of any IP address change).
- 6 Open a web browser and check whether you can access the Océ Express WebTools from a client workstation using the hostname:
`http://<TCS300 HOSTNAME>` or `http://<Océ ColorWave 600 HOSTNAME>`

You can now use the hostname to address the TCS300 / Océ ColorWave 600 for printing.

Océ TCS300 / Océ ColorWave 600 integration in an Small Office / Home Office Network environment (without DNS server / with or without DHCP server)

See the two SOHO Network environments described in ‘Small Office / Home Office network environment’ section on page 22.

Such environments can be either:

- **without** a **DNS** server and **with** a **DHCP** server, or
- **without** a **DNS** server and **without** a **DHCP** server.

The TCS300 / Océ ColorWave 600 may not have been declared in the infrastructure. Nevertheless, it is recommended to define the hostname. In this context, the IP address is not necessarily known.

~

Integrate the Océ TCS300 / Océ ColorWave 600 in a SOHO network

- 1 Connect the Océ TCS300 / Océ ColorWave 600 to the network, and power ON it.
- 2 On the Printer Operator Panel, enter in the ‘Configure System’ menu and select ‘Network settings adapter 1’.
(See the Océ TCS300 or the Océ ColorWave 600 User Manual)
- 3 Check the current IP address:
 - If IP address is part of the following range: 169.254.0.1 - 169.254.255.254
Océ TCS300 / Océ ColorWave 600 was not able to contact a DHCP server.
So an APIPA network address has been setup automatically on
Océ TCS300 / Océ ColorWave 600.
 - If IP address is NOT part of the range: 169.254.0.1 - 169.254.255.254, this means that a DHCP server is in place.
Check if IP address is part of the IP address range defined in the DHCP server.
- 4 Write down the IP address to remember it.
- 5 Open a web browser on a client workstation and enter the following URL to access the Océ Express WebTools:
`http://<IP-ADDRESS>`

- 6 Within the Océ Express WebTools, configure the other network settings.
 - Configure the 'Hostname' in order to be able to address the Océ TCS300 / Océ ColorWave 600 with its hostname rather than its IP address (since it is more convenient, and independent from any IP address change).
 - Enable the 'NetBios over TCP/IP' setting, when there is no DNS server on the network, in order to use the hostname from a client workstation (after a while).
- 7 Open a web browser and check whether you can access the Océ Express WebTools from a client workstation using the hostname:
`http://<TCS300 HOSTNAME>` or `http://<Océ ColorWave 600 HOSTNAME>`
You can now use the hostname to address the TCS300 / Océ ColorWave 600 for printing.

Configure the TCP/IP settings for the Océ TCS300 and Océ ColorWave 600 systems

Note: You *MUST* be logged on as a system administrator to change a setting.

- 1 Open the 'Configuration' menu and select the 'Network' tab.
- 2 Click 'Edit' on the 'Identification', 'Adapter 1, TCP/IP' or 'Adapter 1, hardware settings' section.
The related window pops up.
- 3 Select or enter the appropriate parameter value you want to set.
- 4 Click the 'OK' button to close the window and save the change.

The screenshot shows the Océ Express WebTools interface. The browser address bar displays `http://134.188.21.140/SettingsEditor/configuration/dsp_configuration_network.jsp`. The page has a navigation bar with 'Jobs', 'Preferences', 'Configuration' (selected), and 'Support'. Below this is a sub-navigation bar with 'Overview', 'Network' (selected), and 'Printer languages'. The main content area is titled 'Network connection and protocols.' and contains three expandable sections: 'Identification', 'Adapter 1, TCP/IP', and 'Adapter 1, hardware settings'. Each section has an 'Edit' button. The 'Identification' section shows fields for Host name, Description (Océ_printer), Location, and Administrator (Administrator). The 'Adapter 1, TCP/IP' section shows fields for Primary DNS suffix, Enable DHCP (Enabled), Enable NetBIOS over TCP/IP (Disabled), IP address (0.0.0.0), Subnet mask (255.255.255.0), Primary DNS server (By DHCP), Default gateway (By DHCP), Primary WINS server (By DHCP), and Secondary WINS server (By DHCP). The 'Adapter 1, hardware settings' section shows fields for Network duplex mode and Network speed, both set to Automatic detection. At the bottom, there is a 'FTP' section with a dropdown menu set to 'System'.

Setting	Value
Host name	
Description	Océ_printer
Location	Location
Administrator	Administrator

Setting	Value
Primary DNS suffix	
Enable DHCP	Enabled
Enable NetBIOS over TCP/IP	Disabled
IP address	0.0.0.0
Subnet mask	255.255.255.0
Primary DNS server	By DHCP
Default gateway	By DHCP
Primary WINS server	By DHCP
Secondary WINS server	By DHCP

Setting	Value
Network duplex mode	Automatic detection
Network speed	Automatic detection

FTP: System

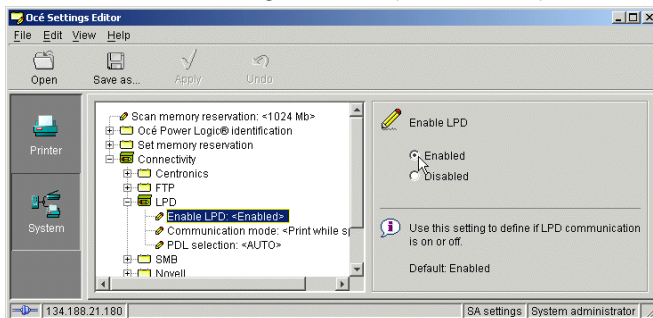
[1] View of the Océ ColorWave 600 Express WebTools

Enable LPR protocol

Note: You *MUST* be logged on as a system administrator.

~ **Enable LPR Protocol for all Océ TDS/TCS systems except Océ TDS700, Océ TCS300 and Océ ColorWave 600**

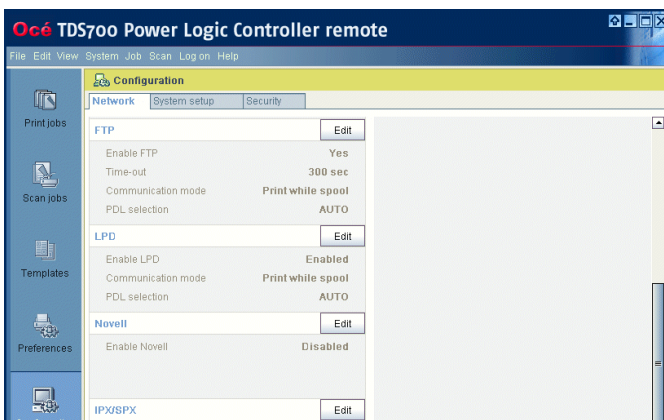
- 1 Switch the Océ Settings Editor in SA Mode (see page 257).
- 2 Expand the 'Connectivity' Folder.
- 3 Expand the 'LPD' folder and select the 'Enable LPD' document.
- 4 Select 'Enabled' on the right window ('Enable LPD') and click 'Apply'.



- 5 You are then proposed to reboot the controller: either, click 'OK' and go on with the other parameters setup, or, once all the setups are done, reboot the controller (see 'Reboot the controller' on page 259).

~ **Enable LPR/LPD Protocol for Océ TDS700**

- 1 Open the 'Configuration' menu and select the 'Network' tab.
- 2 Scroll down to 'LPD' section and click 'Edit'.



- 3 Select 'Enabled' (in 'Enable LPD') and click 'OK'.

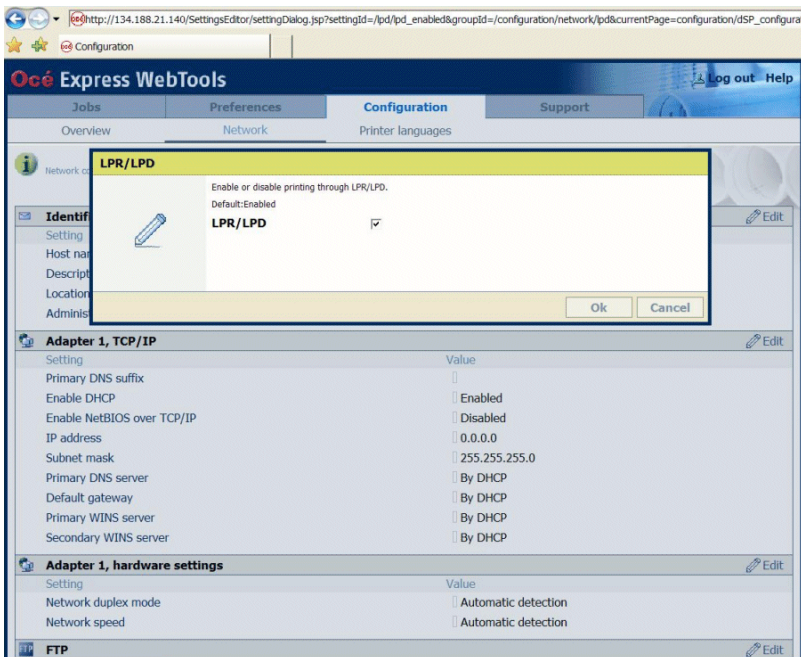
~

Enable the LPR/LPD protocol for the Océ TCS300 and Océ ColorWave 600 systems

Note: The LPR protocol is enabled by default for the TCS300 and Océ ColorWave 600.

Note: You *MUST* be logged on as a system administrator to change this setting.

- 1 From a client workstation, open a web browser and access the Océ Express WebTools (http://<TCS300_HOSTNAME> or http://<Océ_ColorWave_600_HOSTNAME> - see 'Configure the TCP/IP settings (Océ TCS300 and Océ ColorWave 600 systems)' section on page 34).
- 2 In the 'Configuration' tab, select 'Network'.
- 3 In the 'LPD' section, click on 'Edit'.
The 'LPD' window pops up.
- 4 Check the 'LPR/LPD' setting box to enable the LPR protocol.
- 5 Click on the 'OK' button to validate the new setting and close the window.



Enable SMB protocol (for part of the Océ TDS/TCS systems only)

SMB functionalities

Note: *This section does not apply to the Océ ColorWave 600 systems.*

Depending on the Océ print system and Océ PLC controller release, you can find the following SMB functionality:

Océ Print System	Océ TDS3x0 Océ TDS400 Océ TDS600 Océ TDS8x0 Océ TCS400	Océ TDS450 v3.0.x Océ TCS500 v1.1.1	Océ TDS700 Océ TDS450 v3.1 and higher Océ TCS500 v1.2 and higher Océ TCS300
Functionality			
SMB browsing	YES ⁽¹⁾	YES ⁽³⁾	NO
SMB Point and Print	YES ⁽¹⁾	NO	NO
Scan to File via SMB	YES ⁽²⁾	YES ⁽²⁾	YES ⁽⁴⁾

[2] SMB capabilities

Notes:

(1) For ‘Standard / Normal’ security level only.

(2) For ‘Standard / Normal’ security level only.

If there is no DNS server, you must enable the SMB printing protocol (see procedure here after).

(3) SMB browsing functionality is of limited interest as Point and Print is not available.

(4) For ‘Standard / Normal’ security level only.

If there is no DNS server, you must enable NetBios over TCP/IP.

Configure the SMB settings

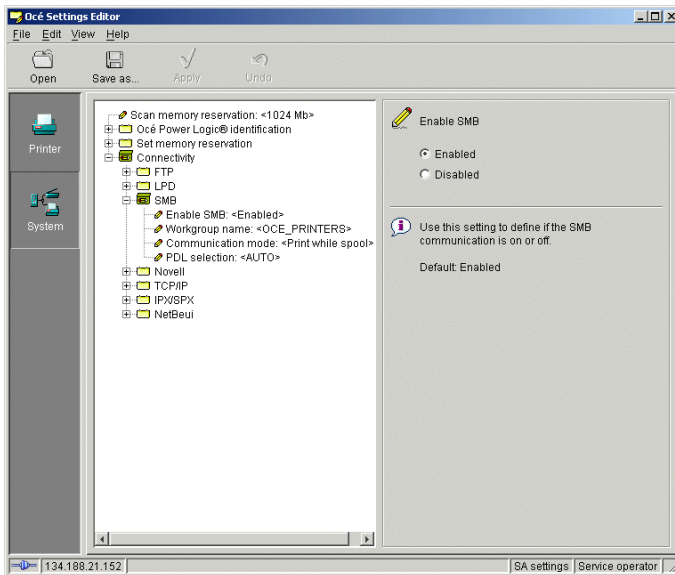
Note: You *MUST* be logged on as a system administrator.

Caution: The following procedures do not address all the Océ TDS/TCS systems.

The SMB settings configuration is not applicable to the Océ TCS500 v1.2 and higher, Océ TCS300, Océ TDS700 and Océ TDS450 v3.1 and higher.

Enable SMB printing protocol

- 1 Switch the Océ Settings Editor in SA Mode (see page 257).
- 2 Expand the 'Connectivity' folder.
- 3 Expand the 'SMB' folder.
- 4 Select 'Enable SMB'.
- 5 Select 'Enabled' on the right window ('Enable SMB').
- 6 Click 'Apply'.



- 7 You are proposed to reboot the controller: click 'OK' and either go on with the other parameters setup, or, once all the setups are done, reboot the controller (see 'Reboot the controller' section on page 259).

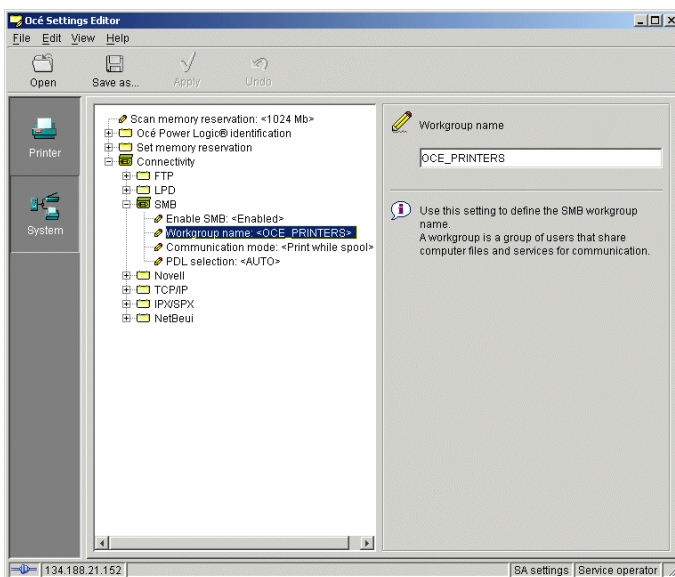
~

Set up the SMB workgroup name

- 1 Switch the Océ Settings Editor in SA Mode (see page 257).
- 2 Expand the 'Connectivity' folder.
- 3 Expand the 'SMB' folder.
- 4 Select 'Workgroup name'.
- 5 Type in the new workgroup name in the input field.

Note: *This field is mandatory. You must fill it in, otherwise the controller will continuously reboot.*

- 6 Click 'Apply'.



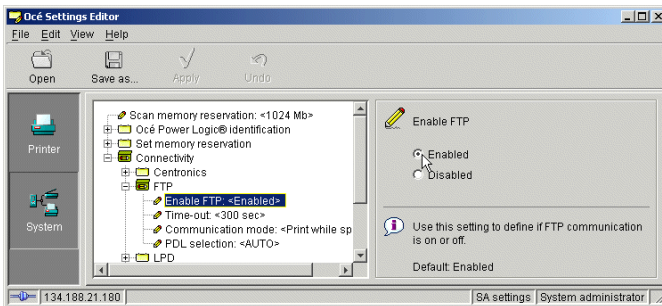
- 7 You are proposed to reboot the controller: click 'OK' and either go on with the other parameters setup, or, once all setups are done, reboot the controller (see 'Reboot the controller' section on page 259).

Enable FTP protocol

Note: *You MUST be logged on as a system administrator.*

~ **Enable FTP Protocol for all Océ TDS/TCS systems except Océ TDS700, Océ TCS300 and Océ ColorWave 600**

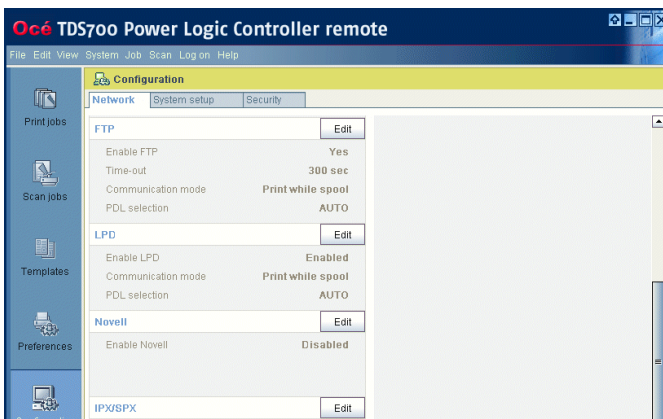
- 1 Switch the Océ Settings Editor in SA Mode (see page 257).
- 2 Expand the 'Connectivity' folder.
- 3 Expand the 'FTP' folder and select the 'Enable FTP' document.
- 4 Select 'Enabled' on the right window ('Enable FTP') and click 'Apply'.



- 5 You are proposed to reboot the controller: either, click 'OK' and go on with the other parameters setup, or, once all the setups are done, reboot the controller (see 'Reboot the controller' on page 259).

~ **Enable FTP Protocol for Océ TDS700**

- 1 Open the 'Configuration' menu and select the 'Network' tab.
- 2 Scroll down to 'FTP' section and click 'Edit'.



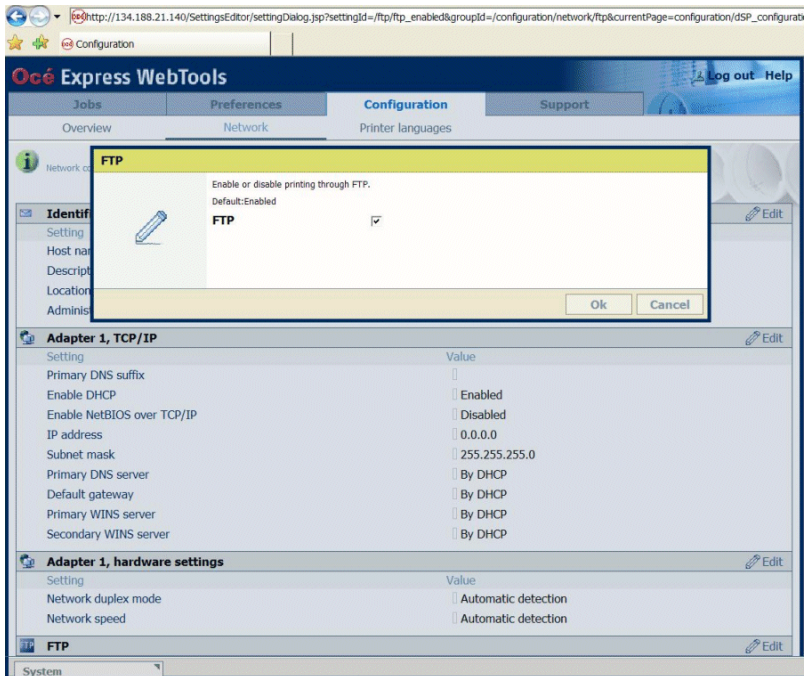
- 3 Select 'YES' (in 'Enable FTP') and click 'OK'.

Enable the FTP protocol for the Océ TCS300 and Océ ColorWave 600 systems

Note: *The FTP protocol is enabled by default for the TCS300 and Océ ColorWave 600.*

Note: *You MUST be logged on as a system administrator to change this setting.*

- 1 From a client workstation, open a web browser and access the Océ Express WebTools (http://<TCS300_HOSTNAME> or http://<Océ_ColorWave_600_HOSTNAME> (see 'Configure the TCP/IP settings (Océ TCS300 and Océ ColorWave 600 systems)' section on page 34).
- 2 In the 'Configuration' tab, select 'Network'.
- 3 In the 'FTP' section, click on 'Edit'.
The 'FTP' window pops up.
- 4 Check the 'FTP' setting box to enable the FTP protocol.
- 5 Click on the 'OK' button to validate the new setting and close the window.



Print server configuration in a Client/Server architecture

The two following sections describe how to setup an Océ TDS/TCS and Océ ColorWave 600 Print Server and an associated workstation, in a Client / Server configuration.

In this configuration, printer data are sent twice on the network:

- From the user workstation to the Print Server workstation.
- From the Print Server workstation to the Océ TDS/TCS and ColorWave 600 printer controller.

Note: *You MUST be logged on as a system administrator to perform these operations on the print server.*

Updates You can update the drivers locally on the Print Server by getting the updates from the Océ web site.

Administration On the Print Server, you can fully administrate the Océ TDS/TCS and ColorWave 600 Printer Resource.

Media Setup On the Print Server, you can fully administrate the Océ TDS/TCS and ColorWave 600 Printer Media.

Document Setup On the Print Server, you can fully administrate the Océ TDS/TCS and ColorWave 600 Printer Document Format.

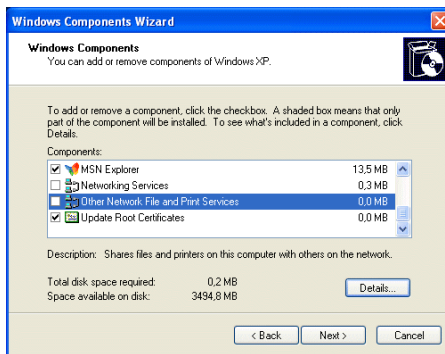
Add and configure LPR printing protocol (Windows 2000/XP/Server 2003)

For performance reasons, we strongly recommend to use under Windows 2000/XP/Server 2003 LPR port instead of TCP/IP port. By default, after a Windows installation, only Standard TCP/IP port is available, and not LPR port. Therefore, first check if LPR protocol is installed and if not, see the following procedures to add LPR port.

~

Add LPR printing protocol

- 1 From the Windows 'Start' menu, select 'Settings' and 'Control Panel'.
- 2 Select 'Add/Remove Programs' and 'Add/Remove Windows Components':

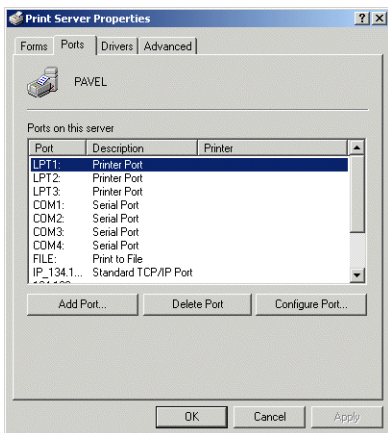


[3] Windows Components Wizard under Windows XP

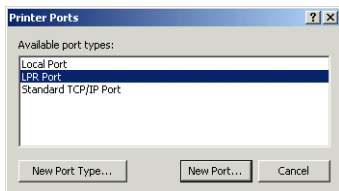
- 3 Highlight 'Other Network File and Print Services' (do not check it) and click 'Details'.
- 4 Select 'Print services for Unix'.
Click 'OK' and 'Next'.
- 5 You may be prompted for Windows installation CD.
- 6 Click 'Finish'.
No reboot is required.

Create LPR port

- 1 From the Windows 'Start' menu, select 'Settings', 'Printers' (or 'Printers and faxes').
- 2 Click 'File', then 'Server Properties'.
- 3 In the 'Print Server Properties' window, select the 'Ports' tab.



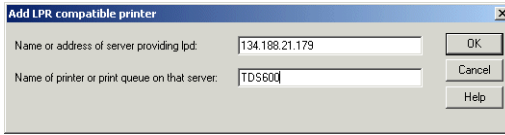
- 4 Click 'Add port...' to open the 'Printer Ports' window.



- 5 Select 'LPR Port' and click 'New Port...'.

Note: If LPR port is not present, see 'Add LPR printing protocol' section on page 47.

- 6 Enter the Océ TDS/TCS/ColorWave 600 printer IP address or host name in the first field, and the print queue name (any alphanumeric name) in the second field:



Note: *If DHCP is enabled on the Océ TDS/TCS/ColorWave 600 printer (see 'Enable DHCP' section on page 25), an IP address may be dynamically assigned.*

Then it is recommended to use the Océ TDS/TCS/ColorWave 600 host name to be prevented from any IP address change (see 'Define the Océ TDS/TCS host name' section on page 31).

Note: *If the Océ TDS/TCS/ColorWave 600 host name is used, make sure that this name can be resolved via DNS or WINS or that 'NetBios over TCP/IP' setting is enabled (for TDS/TCS systems supporting this setting and Océ ColorWave 600).*

- 7 Click 'OK' and twice 'Close'.

Add and configure LPR printing protocol (Windows Vista)

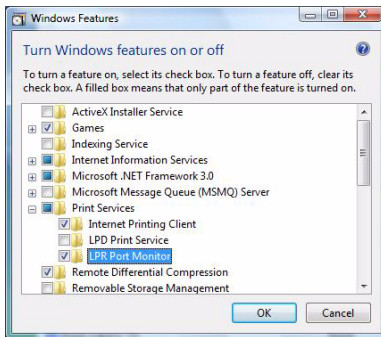
For performance reasons, we strongly recommend to use under Windows Vista LPR port instead of TCP/IP port. By default, after a Windows installation, only Standard TCP/IP port is available, and not LPR port. Therefore first check if LPR protocol is installed and if not, see the following procedures to add LPR port.

~

Add LPR printing protocol

- 1 Open 'Programs and Features' (Start - Control Panel - Programs and Features)
- 2 Click 'Turn Windows features on or off', then 'Continue'.
- 3 Expand 'Print Services'.

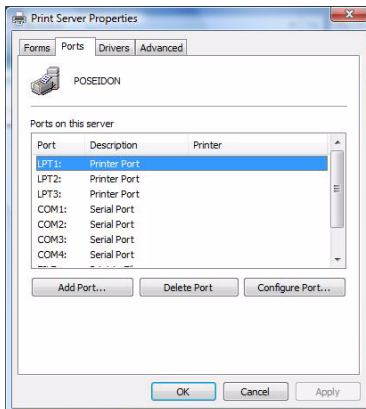
- 4 Verify that 'LPR Port Monitor' is checked:
 - if it is checked, click 'Cancel'. The installation is finished
 - if it is not checked, check it



- 5 Click 'OK'.
Installation will start. Be ready to install Windows CD-ROM when requested.
Reboot the workstation, if requested.
- 6 Close 'Programs and Features'.

Create LPR port

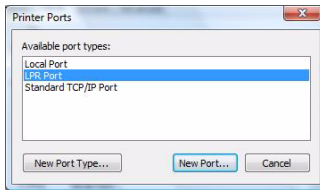
- 1 Open 'Printers' (Start - Control Panel - Printers).
- 2 Right click in the empty space of the 'Printers' window and select 'Run as administrator', then 'Server Properties...'.
- 3 In the 'Print server Properties' select the 'Ports' tab.



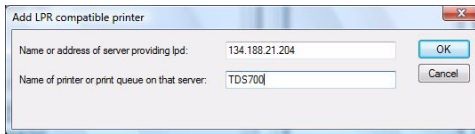
- 4 Click 'Add port...' to open 'Printer Ports' window.

- 5 Select 'LPR Port' and click 'New Port...'

Note: *If LPR port is not present, see 'Add LPR printing protocol' section on page 49*



- 6 Enter the Océ TDS/TCS printer IP address or host name in the first field, and the print queue name (any alphanumeric name) in the second field.



Note: *If DHCP is enabled on the Océ TDS/TCS/ColorWave 600 printer (see 'Enable DHCP' section on page 25), an IP address may be dynamically assigned.*

Then it is recommended to use the Océ TDS/TCS/ColorWave 600 host name to be prevented from any IP address change (see 'Define the Océ TDS/TCS host name' section on page 31).

Note: *If the Océ TDS/TCS/ColorWave 600 host name is used, make sure that this name can be resolved via DNS or WINS or that 'NetBios over TCP/IP' setting is enabled (for TDS/TCS systems supporting this setting and Océ ColorWave 600).*

- 7 Click 'OK' and twice 'Close'.
- 8 Close 'Printers'.

Install the print server (using the LPR printing protocol)

Before you start

- Make sure the LPR protocol is installed (see ‘Add and configure LPR printing protocol (Windows 2000/XP/Server 2003)’ section on page 47 and ‘Add and configure LPR printing protocol (Windows Vista)’ section on page 49).
- Make sure that LPR port corresponding to your Océ printer is created.
- Make sure the driver you are about to install can be combined with your printer and Operating System (see ‘Compatibility matrix’ on page 11).

Note: *We recommend to use the WPD driver with the Océ TDS/TCS and ColorWave 600 systems.*

~

Install WPD or PS3 driver on the print server

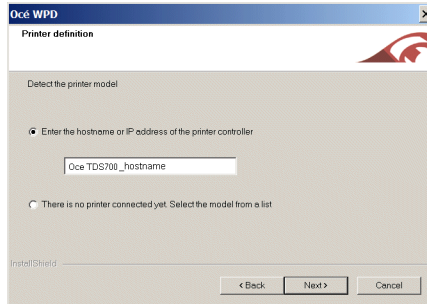
- 1 According to the way you get the driver installation files:
 - In the Windows Explorer, browse to locate the directory where the Océ Windows Printer Driver or PostScript 3 distribution is located and double-click ‘Setup.exe’.
 - Insert the Driver Pack CD and launch the WPD or PS3 installation for your printer.
- 2 Select the setup language if requested.
The installer is launched.
Note: *Under Windows Vista, you must first allow the program.*
- 3 Click ‘Next’ and ‘Yes’ to accept the license agreement.
- 4 If requested, choose your language and click ‘Next’.

5 When installing WPD:

- If the printer is connected to the network, fill in the printer host name or IP address of the TDS/TCS/ColorWave 600 printer.

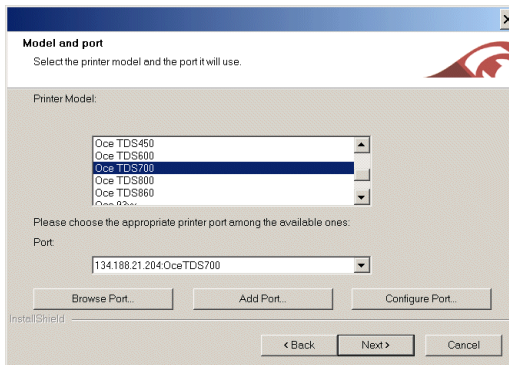
Note: *Use the printer IP address in preference if it is not supposed to be changed (Fixed IP address or DHCP reservation).*

Use the host name in case the IP address can be changed (DHCP).

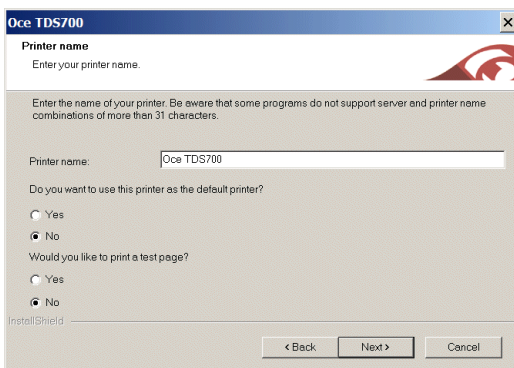


- Otherwise, select 'There is no printer connected yet...' and click 'Next'. The driver connects to the printer.

6 Select or confirm the printer model and choose the LPR port previously created, then click 'Next'.

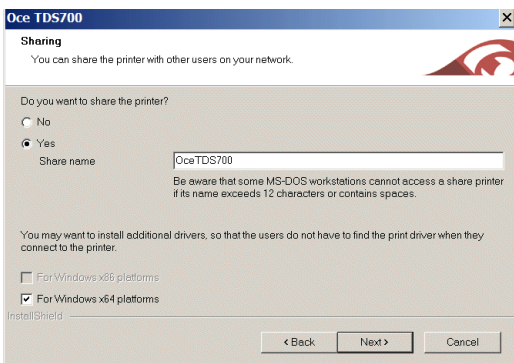


7 Name the printer and click 'Next'.



8 In the 'Sharing' window, click 'Yes' to share the printer and define a share name.

Check the boxes for additional drivers if you need to connect to the print server several workstations running under different operating systems (e.g. Windows 64-bits).



9 Click 'Next'.

Files are copied on your system.

In case of WPD installation, the back-channel connection is established and the driver is configured.

10 Click 'Finish'.

Client configuration in a Client/Server architecture (all systems)

This section describes how to setup a client workstation in order to use the Océ TDS/TCS/ColorWave 600 printer resource on a network via the TCP/IP protocol in a Client/Server configuration.

The detailed installation process of each Océ driver is described in the associated User Manual or Installation Guide (available on www.oce.com).

Note: *You MUST be logged on as a system administrator to perform these operations on the client workstation.*

SMB Point and Print (Windows 2000/XP/Server 2003)

Before you start, make sure the driver you are about to install can be combined with your printer and Operating System (see ‘Compatibility matrix’ on page 11).

Note: *The use of WPD driver is recommended for the Océ TDS/TCS and Océ ColorWave 600 systems.*

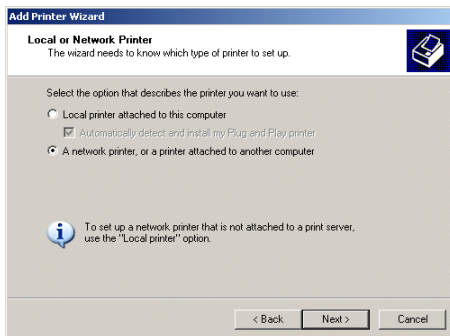
~

Install a printer on client workstation

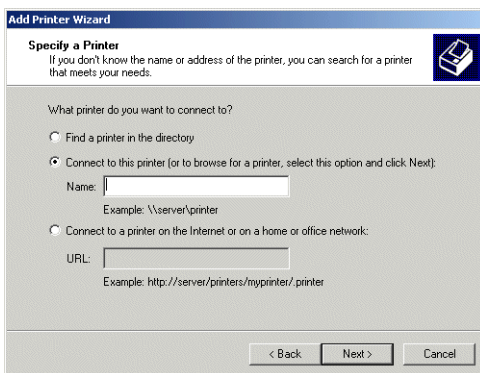
Note: *The procedure to install a printer in a SMB Point and Print configuration is the same for every Windows operating system. The example below describes it under an XP platform.*

- 1 From the ‘Start - Settings’ menu open the ‘Printers and faxes’ windows.
- 2 Click ‘Add a printer’ to launch the ‘Add Printer Wizard’.
- 3 Click ‘Next’.

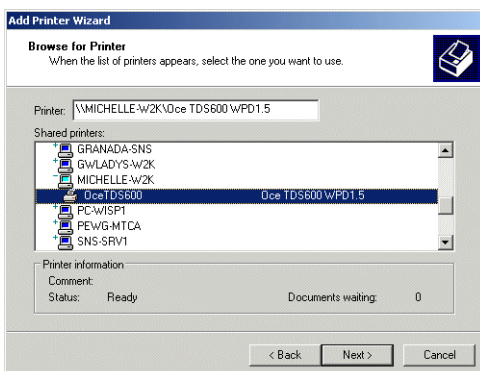
- 4 Select 'A network printer...' and click 'Next':



- 5 Select 'Connect to this printer' and enter the printer share name or click 'Next' to browse for the printer on the network:



- 6 Select the print server and then select the printer:



- 7 Click 'Finish' to complete the installation.

SMB Point and Print (for Windows Vista)

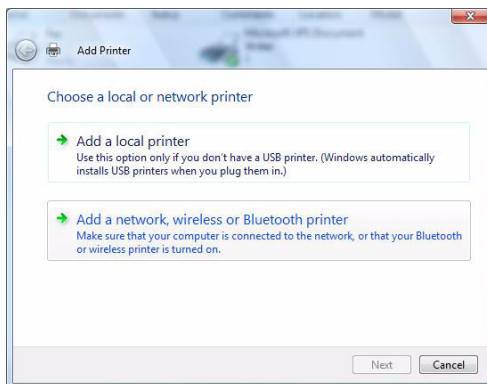
Before you start, make sure the driver you are about to install can be combined with your printer and Operating System (see ‘Compatibility matrix’ on page 11).

Note: *We recommend to use the WPD driver with the Océ TDS/TCS and ColorWave 600 systems.*

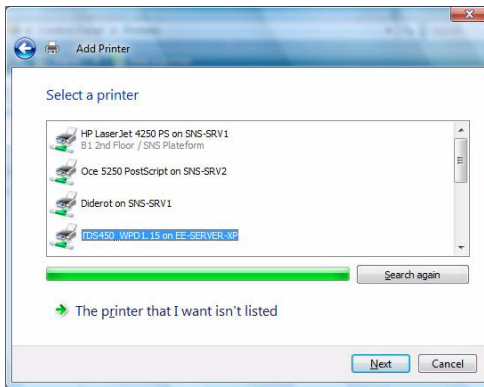
~

Install a printer on client workstation

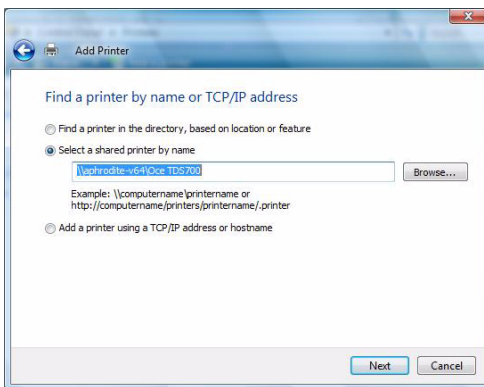
- 1 Open ‘Printers’ (Start - Control Panel - Printers).
- 2 Click ‘Add Printer’ to launch the ‘Add Printer’ wizard.
- 3 Click ‘Add a network wireless or Bluetooth printer’.



- 4 Search for the print server and the printer among those listed in the Active Directory:
 - if it is listed, click 'Next' and go to step 5.
 - if it is not listed, click 'The printer that I want isn't listed'

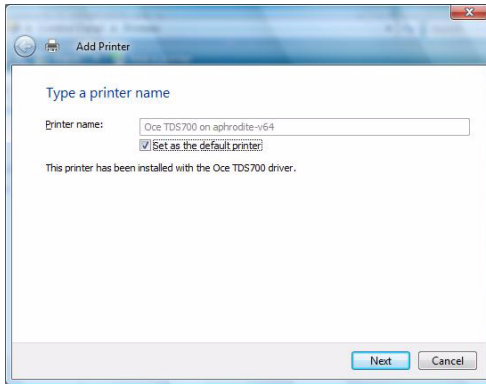


- 5 Select 'Select a shared printer by name' and enter the printer share name. You can also click 'Browse...', then double click the print server and the printer. Click 'Next'.



- 6 Click 'Install driver', then 'Continue'.

- 7 Uncheck the case 'Set as the default printer' if necessary and click 'Next'.



- 8 Click 'Finish' to complete the installation.

Print from AutoCAD® (2000 and higher)

Note: Make sure you installed the latest version of HDI or WPD driver (see 'Drivers, Downloads and Support' section on <http://www.oce.com>).

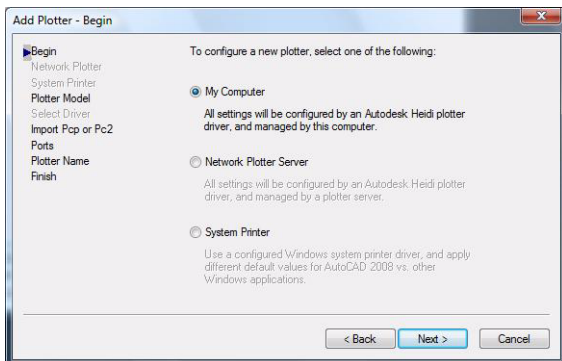
From AutoCAD applications, you can connect to the Océ printers with the WPD driver or with the HDI driver. Both procedures are detailed here after.

~

Connect to an Océ printer with the WPD driver (all OS)

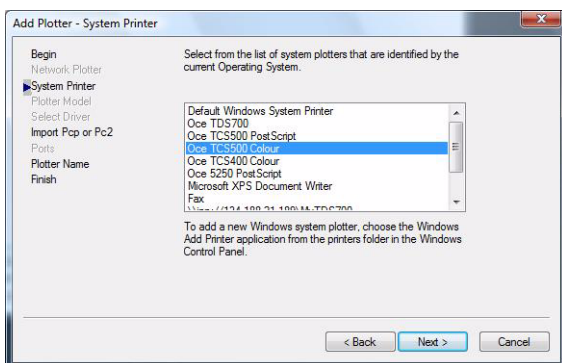
- 1 In the AutoCAD menu, select 'FILE - PLOTTER MANAGER'.
- 2 Double-click 'Add-A-Plotter Wizard'.
- 3 Click 'Next'.

4 Select 'System Printer'.



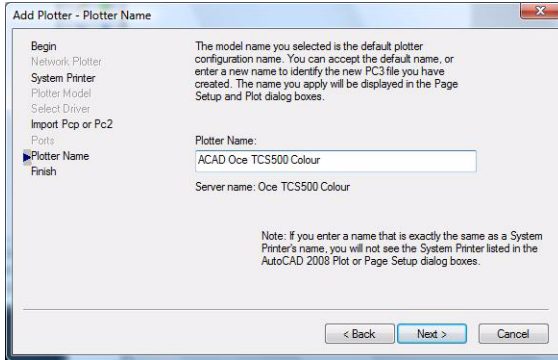
5 Click 'Next'.

6 Select the system plotter associated with WPD driver.

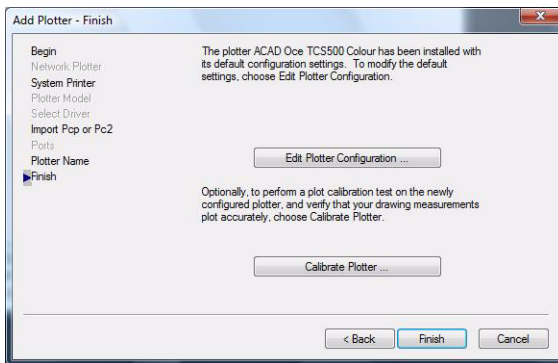


7 Click 'Next' twice.

- 8 Enter a new plotter name (to distinguish it from the default name of the system plotter associated with WPD driver).

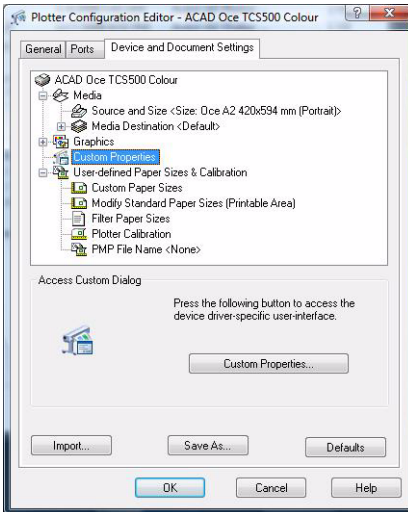


- 9 Click 'Next'.



- 10 Click 'Edit plotter configuration'.

- 11 Select 'Custom Properties' in the list.
The 'Access Custom Dialog' part dynamically appears.

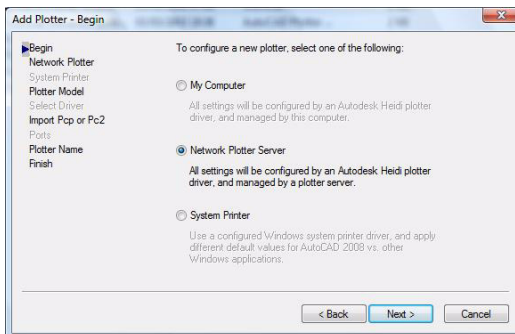


- 12 Click the 'Custom properties' button.
- 13 Setup the printer parameters.
Click 'OK' twice and 'Finish'.

~

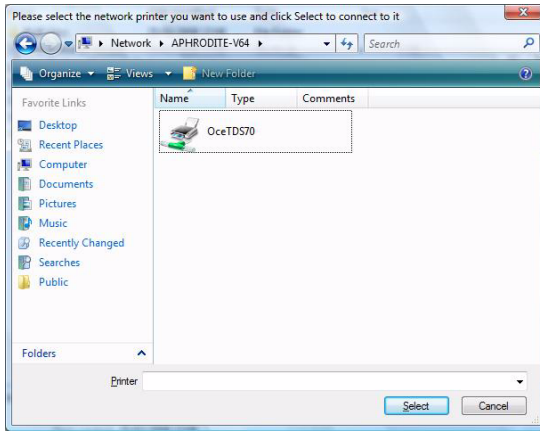
Connect to an Océ TDS/TCS printer with the AutoCAD HDI driver

- 1 From the AutoCAD menu, select 'FILE - PLOTTER MANAGER'.
- 2 Double-click 'Add-A-Plotter Wizard' and click 'Next'.
- 3 Click 'Network Plotter Server'.

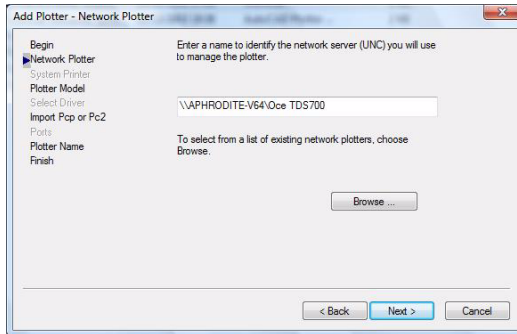


- 4 Click 'Next'.

- 5 Click 'Browse'.
- 6 Browse the network to locate the station where the Océ printer to address is connected to.

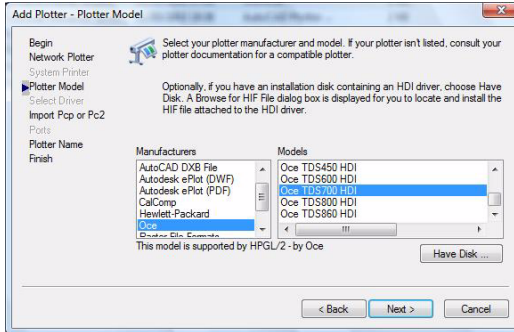


- 7 Select the printer queue and click 'OK'.



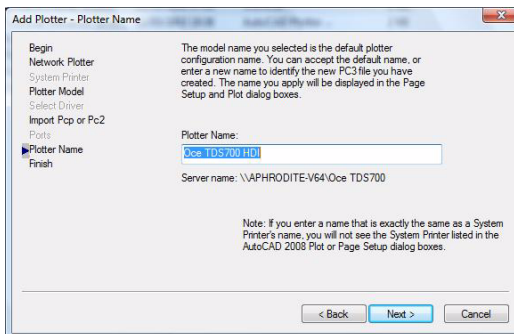
- 8 Click 'Next'.

- 9 Select 'Océ' in the 'Manufacturers' list and your Océ printer in the 'Models' list and click 'Next'.



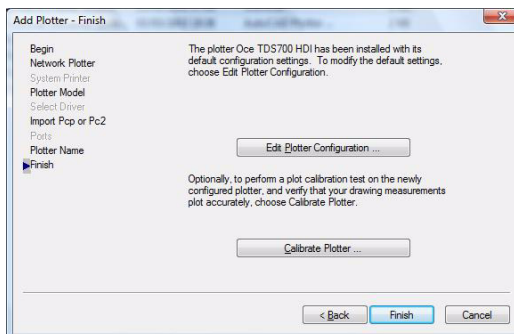
- 10 Click 'Continue' if 'Important note' pops-up, then click 'Next'.

- 11 Enter a new plotter name.

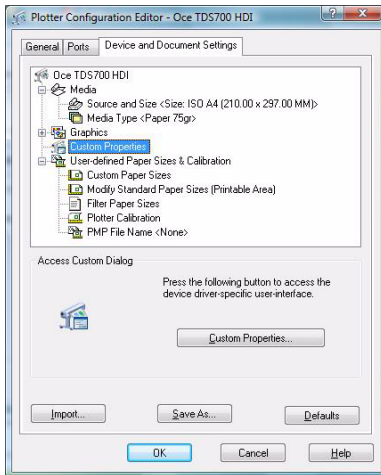


- 12 Click 'Next'.

- 13 Click 'Edit Plotter Configuration'.



- 14 Select 'Custom Properties' in the list.
The 'Access Custom Dialog' part dynamically appears.



- 15 Click the 'Custom Properties' button.
16 Setup the printer parameters as needed.
17 Click 'OK' twice and 'Finish'.

Peer to peer configuration

Use LPR

Before you start

- Make sure the LPR protocol is installed (see ‘Add and configure LPR printing protocol (Windows 2000/XP/Server 2003)’ section on page 47 or ‘Add and configure LPR printing protocol (Windows Vista)’ section on page 49).
- Make sure that LPR port corresponding to your Océ printer is created (see ‘Create LPR port’ on page 48).
- Make sure the driver you are about to install can be combined with your printer and Operating System (see ‘Compatibility matrix’ on page 11).

Note: *The use of WPD driver is recommended for the Océ TDS/TCS and Océ ColorWave 600 systems.*

~ Install WPD or PS3 driver on a workstation (peer to peer, using LPR)

- 1 According to the way you get the driver installation files:
 - In the Windows Explorer, browse to locate the directory where the Océ Windows Printer Driver or PostScript 3 distribution is located and double-click ‘Setup.exe’.
 - Insert the Driver Pack CD and launch the WPD or PS3 installation for your printer.
- 2 Select the setup language if requested.
The installer is launched.

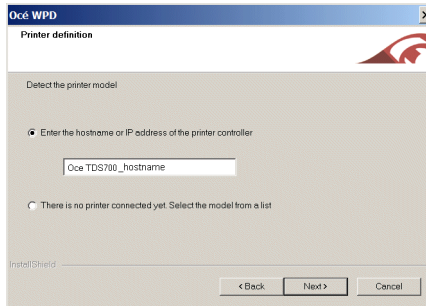
Note: *Under Windows Vista, you must first allow the program.*
- 3 Click ‘Next’ and ‘Yes’ to accept the license agreement.
- 4 If requested, choose your language and click ‘Next’.

5 When installing WPD:

- If the printer is connected to the network, fill in the printer host name or IP address of the TDS/TCS/ColorWave 600 printer.

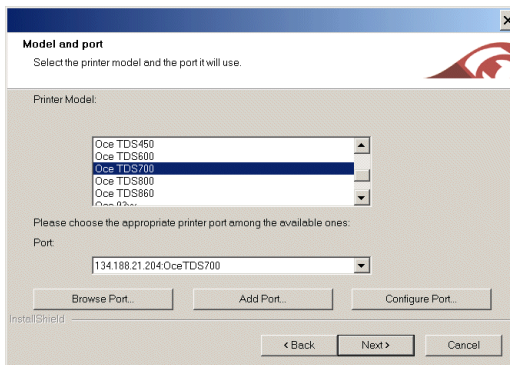
Note: *Use the printer IP address in preference if it is not supposed to be changed (Fixed IP address or DHCP reservation).*

Use the host name in case the IP address can be changed (DHCP).

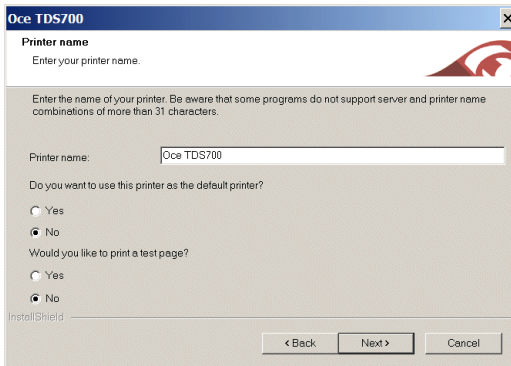


- Otherwise, select 'There is no printer connected yet...' and click 'Next'. The driver connects to the printer.

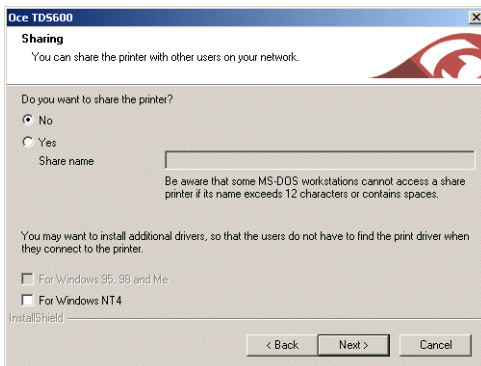
6 Select or confirm the printer model and choose the LPR port previously created, then click 'Next'.



7 Name the printer and click ‘Next’.



8 In the ‘Sharing’ window, click ‘No’ (do not share a driver on a workstation).



9 Click ‘Next’.

Files are copied on your system.

In case of WPD installation, the back-channel connection is established and the driver is configured.

10 Finish the installation.

Use SMB (all systems except Océ TCS500, Océ TCS300, Océ TDS700, Océ TDS450 and Océ ColorWave 600)

Before you start, make sure the driver you are about to install can be combined with your printer and Operating System (see ‘Compatibility matrix’ on page 11).

Caution: *SMB protocol is not available on the Océ TCS500, Océ TCS300, Océ TDS450 and Océ ColorWave 600 print systems.*

~ **Map a local port on a workstation**

- 1 Open a DOS command window (‘Start - Run’ menu, ‘cmd’ program)
- 2 Enter the following command line:

```
net use [local port]: \\[Océ TDS/TCS host name]\ [printer share  
name] /persistent:yes  
e.g.: ‘net use LPT3: \\TDS600-GX260\ocetds600 /persistent:yes’
```

~ **Install the Océ WPD or PS3 drivers on a workstation (peer to peer, SMB)**

The detailed installation process of each Océ driver is described in the associated User Manual or Installation Guide (available on www.oce.com).

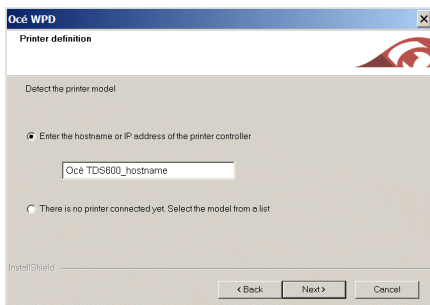
- 1 According to the way you get the driver installation files:
 - In the Windows Explorer, browse to locate the directory where the Océ Windows Printer Driver or PostScript 3 distribution is located and double-click ‘Setup.exe’.
 - Insert the Driver Pack CD and launch the WPD or PS3 installation for your printer.
- 2 Select the setup language if requested.
The installer is launched.
Note: *Under Windows Vista, you must first allow the program.*
- 3 Click ‘Next’ and ‘Yes’ to accept the license agreement.
- 4 If requested, choose your language and click ‘Next’.

5 When installing WPD:

- If the printer is connected to the network, fill in the printer host name or IP address of the TDS/TCS printer.

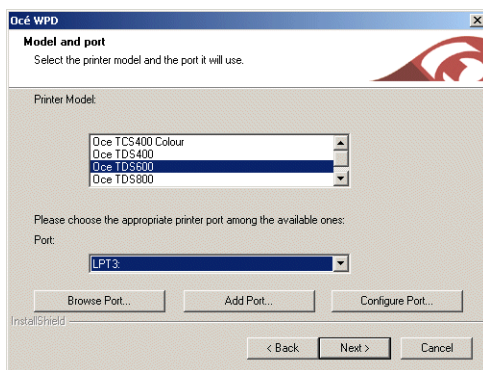
Note: Use the printer IP address in preference if it is not supposed to be changed (Fixed IP address or DHCP reservation).

Use the the host name in case the IP address can be changed (DHCP).

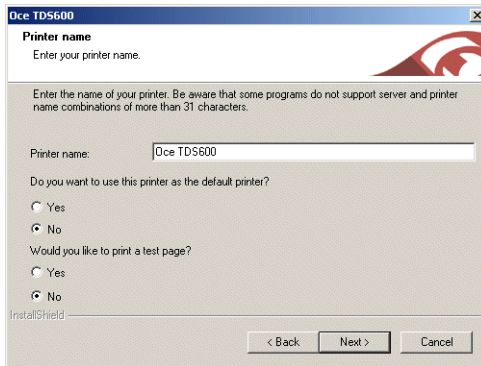


- Otherwise, select 'There is no printer connected yet...' and click 'Next'. The driver connects to the printer.

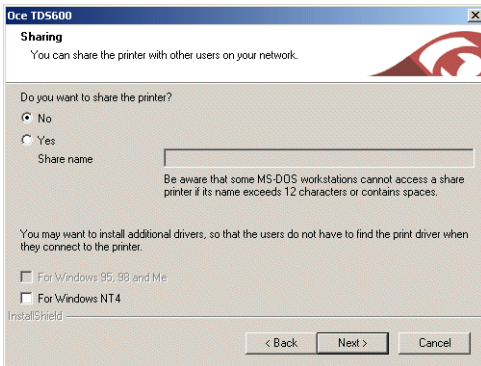
6 In the 'Model and Port' window, select or confirm the printer model and choose the local port previously mapped to the network printer (LPT3 in the example), then click 'Next'.



- 7 Name the printer and click 'Next'.



- 8 In the 'Sharing' window, click 'No' (do not share a driver on a workstation).



- 9 Click 'Next'.

Files are copied on your system.

In case of WPD installation, the back-channel connection is established and the driver is configured.

- 10 Finish the installation.

Print from AutoCAD® (2000 and higher)

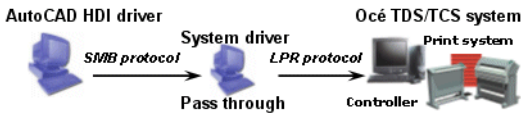
Note: Make sure you installed the latest version of HDI or WPD driver (see 'Drivers, Downloads and Support' section on <http://www.oce.com>).

~

Connect to an Océ printer with the system WPD driver

See 'Connect to an Océ printer with the WPD driver (all OS)' section on page 59.

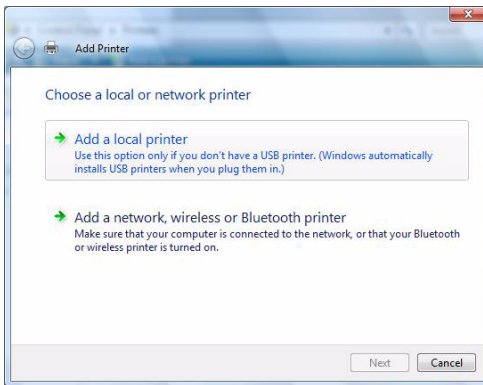
Connect to an Océ TDS/TCS printer with the AutoCAD 2000 – 2008 HDI driver



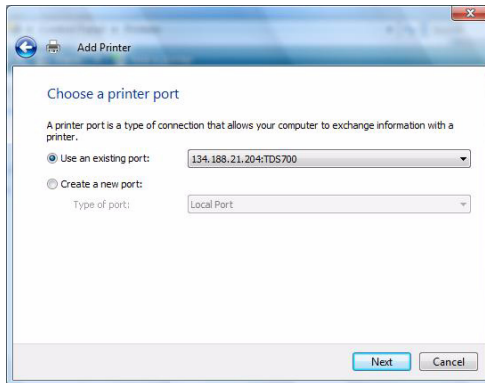
~

Create a local printer mapped to the Océ printer LPR port

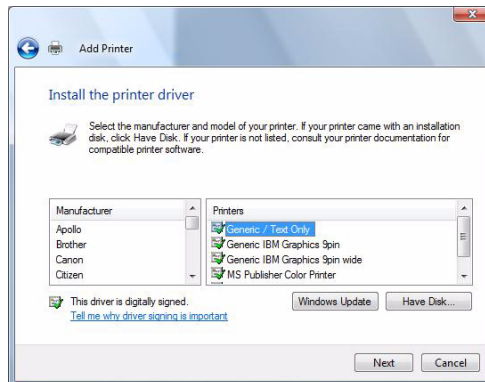
- 1 Open 'Printers' (Start - Control Panel - Printers).
- 2 Click 'Add a printer' to launch the 'Add Printer' wizard.
- 3 Click 'Add a local printer'.



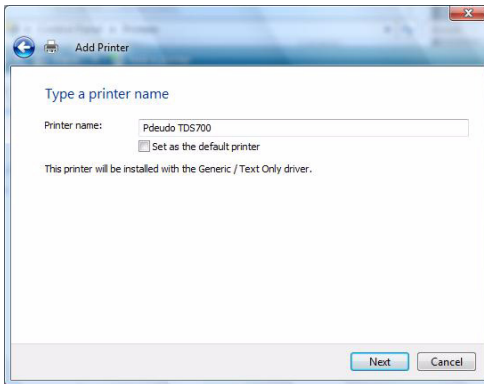
- 4 Click 'Use an existing port' and choose LPR port previously created, then click 'Next'.



- 5 Choose 'Generic / Text only' printer and click 'Next'.



- 6 Enter a new plotter name and uncheck the case ‘Set as the default printer’, then click ‘Next’.



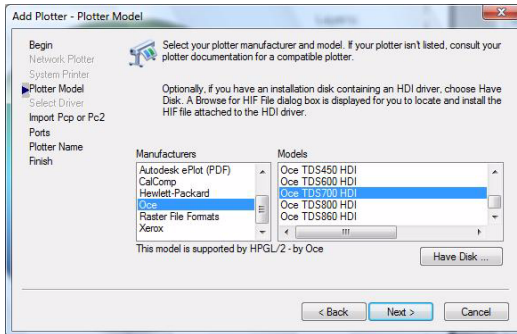
- 7 Click ‘Finish’ to complete the installation.

Connect to a local printer with the AutoCAD HDI driver

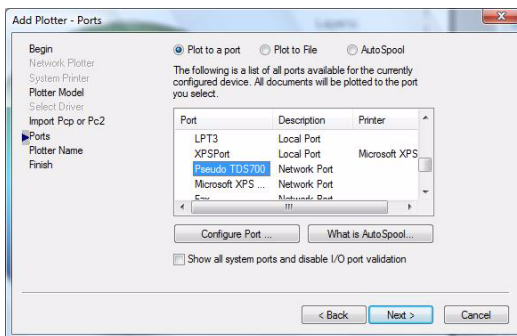
- 1 From the AutoCAD menu select ‘FILE - PLOTTER MANAGER’.
- 2 Double-click ‘Add-A-Plotter Wizard’ and click ‘Next’.
- 3 Click ‘My Computer’ and click ‘Next’.



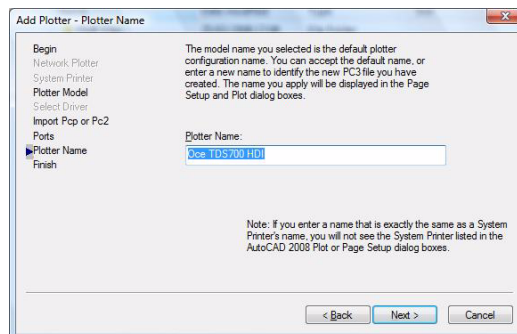
- 4 Select 'Océ' in 'Manufacturers' list and your Océ printer model in the 'Models' list, then click 'Next' twice (click 'Continue' at the pop-up screen).



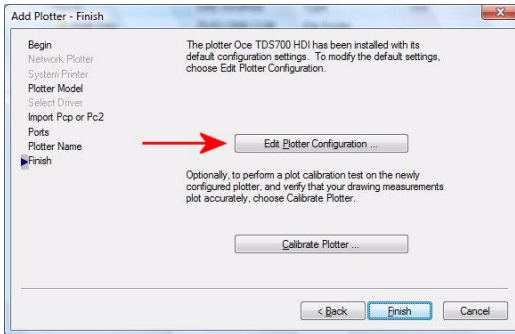
- 5 Click 'Plot to a port' and choose previously created local printer mapped to the Océ printer local LPR port, then click 'Next'.



- 6 Enter a new plotter name and click 'Next'.



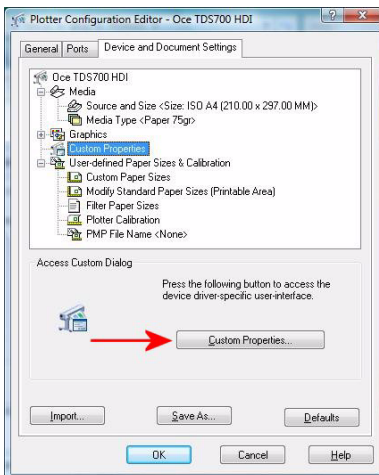
7 Click 'Edit Plotter Configuration'.



8 Select 'Custom Properties' in the list.

The 'Access Custom Dialog' part dynamically appears.

9 Click the 'Custom Properties' button.



10 Setup the printer parameters as needed.

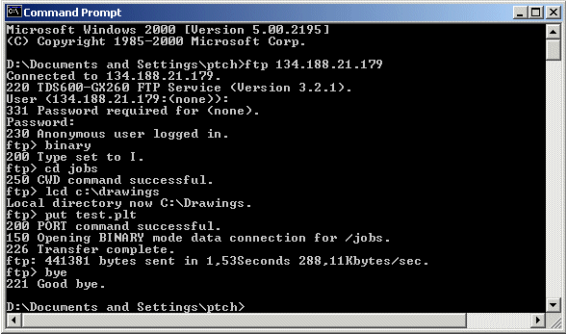
11 Click 'OK' twice and 'Finish'.

Print via FTP (all OS)

Print using a DOS command line interface

~ **Print using a DOS command line interface**

- 1 Launch MS-DOS Command Prompt.
- 2 Type the command 'ftp' followed by the Océ TDS/TCS or ColorWave 600 host name or IP address.
For example: 'ftp tds600-gx260' or 'ftp 134.188.21.179'
- 3 Press 'Enter' twice for user name and password.
A connection is now set to the Océ TDS/TCS or ColorWave 600 FTP server for user 'anonymous'.
- 4 Type the command 'binary' to set the binary transmission mode.
- 5 Type the command 'cd jobs' to enter the 'jobs' directory of the Océ TDS/TCS or ColorWave 600 FTP server.
- 6 Type the command 'lcd' followed by the local directory containing the data to print.
For example 'lcd c:\drawings'.
- 7 Type the command 'put' followed by the name of data file.
For example: 'put test.plt'.
The data file is sent to the 'jobs' directory of the Océ TDS/TCS or ColorWave 600 FTP server, processed and printed.
- 8 Type 'bye' command to close the FTP session.



```
Microsoft Windows [Version 5.00.2195]
(C) Copyright 1985-2000 Microsoft Corp.

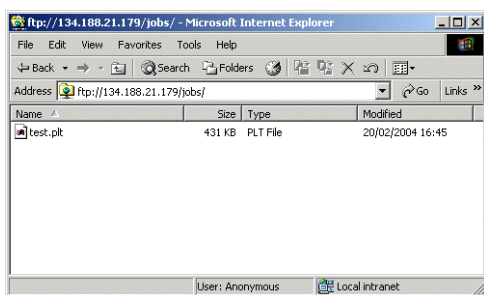
D:\Documents and Settings\ptch>ftp 134.188.21.179
Connected to 134.188.21.179.
220 TDS600-GX260 FTP Service (Version 3.2.1).
User (134.188.21.179:(none)):
331 Password required for (none).
Password:
230 Anonymous user logged in.
ftp> binary
200 Type set to I.
ftp> cd jobs
250 CWD command successful.
ftp> lcd c:\drawings
Local directory now C:\Drawings.
ftp> put test.plt
200 PORT command successful.
150 Opening BINARY mode data connection for /jobs.
226 Transfer complete.
ftp: 441381 bytes sent in 1.538seconds 288.11Kbytes/sec.
ftp> bye
221 Good bye.

D:\Documents and Settings\ptch>
```

Print using a browser

- 1 Launch the Windows Explorer or an Internet Browser (e.g. Microsoft Internet Explorer).
- 2 Type the FTP address of your Océ TDS/TCS or ColorWave 600 printer.
For example 'ftp://134.188.21.179' or 'ftp://tds600-gx260'.
- 3 Explore 'jobs' folder.
- 4 Copy the data file(s) you want to submit into the window of the Windows Explorer or an Internet Browser (e.g. from another session of the Windows Explorer).

The data file(s) is sent to the 'jobs' directory of the Océ TDS/TCS or ColorWave 600 FTP server, processed and printed.



Note: You can manage the jobs submitted by FTP:

- Press <F5> key to view the list of jobs.
- Right click the job you want to delete and select 'Delete'.

Scan to File

Caution: *This section does not apply to the Océ TDS300, TCS300 and ColorWave 600 systems.*

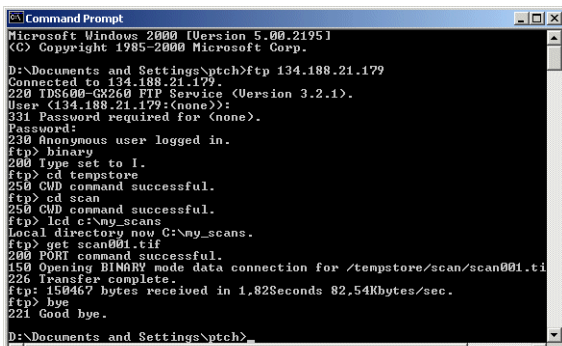
Retrieve scanned files from an Océ TDS/TCS (all systems)

~

Retrieve scanned files using DOS command line interface

- 1 Launch MS-DOS Command Prompt.
- 2 Type the command 'ftp' followed by the Océ TDS/TCS host name or IP address.
For example: 'ftp tds600-gx260' or 'ftp 134.188.21.179'
- 3 Press 'Enter' twice for user name and password.
A connection is now set to the Océ TDS/TCS FTP server for user 'anonymous'.
- 4 Type the command 'binary' to set the binary transmission mode.
- 5 Type the command 'cd tempstore' to enter the 'tempstore' directory of the Océ TDS/TCS FTP server.
- 6 Type the command:
 - 'cd scan' to enter the 'scan' directory where scans to destination 'on controller' are stored.
 - 'cd unsent' to enter the 'unsent' directory where scans not delivered to SMB or FTP remote destination are stored.
- 7 Type the command 'lcd' followed by the local directory containing the data to print.
For example 'lcd c:\my_scans'.
- 8 Type the command 'get' followed by the name of data file.
For example: 'get scan001.tiff'.
The data file is sent to the 'jobs' directory of the Océ TDS/TCS FTP server, processed and printed.

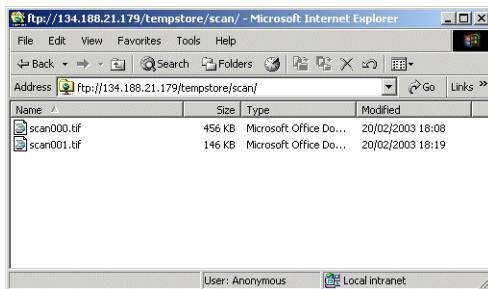
- 9 Type 'bye' command to close the FTP session.



```
D:\Documents and Settings\ptch>ftp 134.188.21.179
Connected to 134.188.21.179.
220 TDS600-GX260 FTP Service (Version 3.2.1).
User (134.188.21.179:(none)):
331 Password required for (none).
Password:
230 Anonymous user logged in.
ftp> binary
200 Type set to I.
ftp> cd tempstore
250 CWD command successful.
ftp> cd scan
250 CWD command successful.
ftp> lcd c:\my_scans
Local directory now C:\my_scans.
ftp> get scan001.tif
200 PORT command successful.
150 Opening BINARY mode data connection for /tempstore/scan/scan001.tif
226 Transfer complete.
ftp> 150467 bytes received in 1,828seconds 82,54Kbytes/sec.
ftp> bye
221 Good bye.
D:\Documents and Settings\ptch>
```

Retrieve scanned files using a browser

- 1 Launch the Windows Explorer or an Internet browser (e.g. Microsoft Internet Explorer).
- 2 Type the FTP address of your Océ TDS/TCS printer.
For example 'ftp://134.188.21.179' or 'ftp://tds600-gx260'.
- 3 Explore 'tempstore' folder.
- 4 Explore 'scan' folder to retrieve scans to destination 'on controller' or 'unsent' folder to retrieve scans not delivered to SMB or FTP remote destination.
- 5 Select the scan file(s) you want to retrieve and copy them, for example, to the window of another session of the Windows Explorer.



Scan to File to an SMB destination

Note: To create a SMB Scan to File destination (in a network without DNS server), make sure that the 'SMB printing' or 'NetBios over TCP/IP' setting (according to your Océ system) is enabled on the Settings Editor of your Océ system controller.

Destination workstation running under Windows 2000/XP/Server 2003

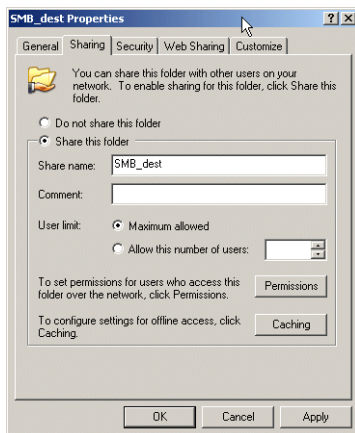
Before you start, make sure that domain security policy allows access from the Océ TDS/TCS to the computer where the destination folder is located.

Note: When scanning to a Windows XP destination workstation, you need to configure the workstation XP firewall (see 'Scan to File: configuration of Windows XP, Server 2003 and Vista firewall on destination workstation' on page 91).

~

Configure the destination folder

- 1 Browse the destination folder with Windows Explorer.
- 2 Right click the folder and select 'Sharing...'
- 3 Select 'Sharing as' and enter the desired name in the field 'Share Name':



- 4 By default the 'Full control' permission is given to 'Everyone'. If you want to limit 'Full control' permission to a certain local or domain account click 'Permissions' button and configure the permissions.
- 5 Click 'OK'.

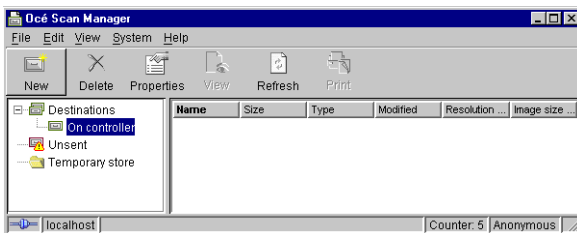
Note: At least one local or domain account must have 'Full control' permission.

Configure the SMB destination in the Océ TDS/TCS Scan Manager

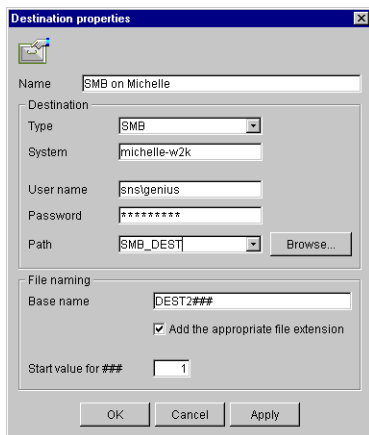
- 1 Select 'Destinations' in the tree view of the Scan Manager.

Note: *On the Océ TDS700, click on 'Scan Jobs' to open the 'Scan destinations' window.*

- 2 Click on the 'New' button of the toolbar.



- 3 The 'Destination properties' dialogue box appears.
- 4 In the 'Name' text box enter a logical name for the destination.
This logical name also appears on the scanner panel.
- 5 From the 'Type' drop-down list box choose destination type 'SMB'.
- 6 In the 'System' text box enter the host name or IP address of a computer where the destination shared folder is located.
- 7 In the 'User name' text box enter the user account name (local or domain) with 'Full Access' to the destination folder.
- 8 In the 'Password' text box enter the password of the user account with the 'Full control' permissions.
- 9 In the 'Path' text box enter the path to the destination folder.



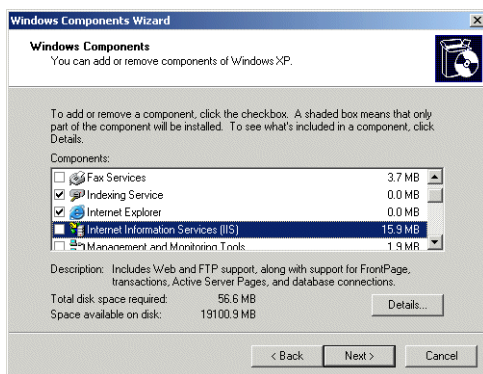
- 10 Click 'OK'.

Note: *If an error message pops-up, see the 'Simple Network Management Protocol (SNMP) on Océ TDS450 v3.1.' section on page 93.*

Scan to File to an FTP destination (workstation running under Windows 2000/XP/Server 2003)

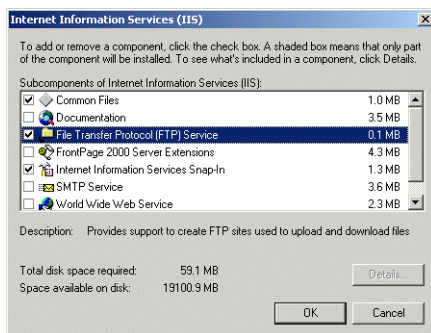
~ Install the FTP service

- 1 Open 'Add/Remove Programs' ('Start - Settings - Control Panel - Add/Remove Programs').
- 2 Click 'Add/remove Windows Components'.



- 3 Click 'Internet Information Services (IIS)', then 'Details'.

Note: Under Windows Server 2003, click 'Application server' then 'Details'.

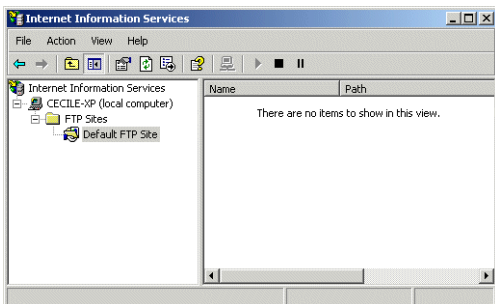


- 4 Verify if the check box 'File Transfer Protocol (FTP) Server' is checked:
 - if it is checked, click 'Cancel' twice. The installation is finished.
 - If it is not checked, check it.
 - 5 Click 'OK', then 'Next'.
- Installation will start. Be ready to install Windows CD-ROM when demanded.
- 6 When installation is terminated click 'Finish'.

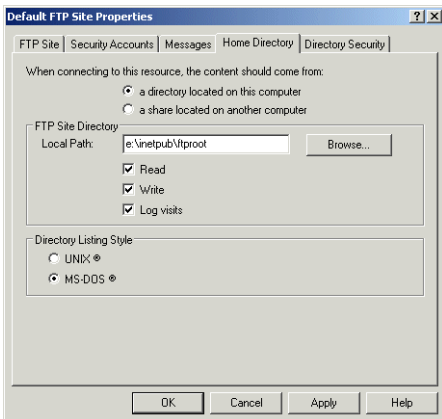
Configure the FTP server on the destination workstation

Note: *When scanning to a Windows XP destination workstation, you need to configure the workstation XP firewall (see 'Scan to File: configuration of Windows XP, Server 2003 and Vista firewall on destination workstation' on page 91).*

- 1 Open 'Administrative Tools' ('Start - Settings - Control Panel - Administrative Tools').
- 2 Double click 'Internet Information Services'.
- 3 Explore 'local computer', then 'FTP Sites'.

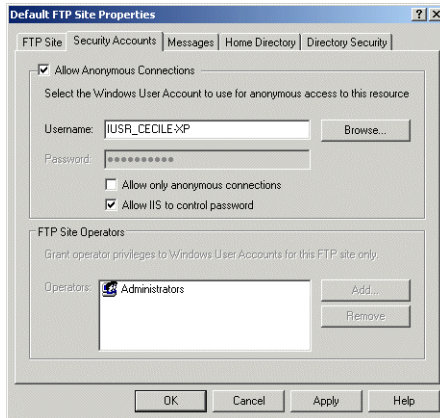


- 4 Right click 'Default FTP Site' and select Properties.
- 5 Select 'Home Directory' tab.



- 6 Configure FTP Directory path.
Ensure that 'Read' and 'Write' cases are checked.

7 Select 'Security Accounts' tab.

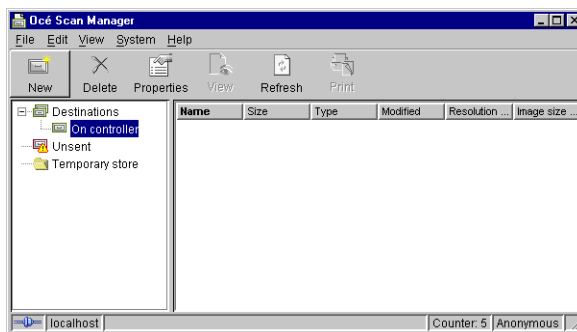


- 8 Uncheck 'Allow Anonymous Connections' case if only authenticated access is required.
- 9 Click 'OK', then close 'Internet Information Services' and 'Administrative Tools'.

~

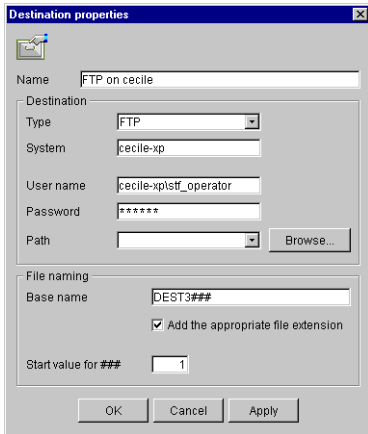
Configure the FTP destination in the Océ TDS/TCS Scan Manager

- 1 Select 'Destinations' in the tree view of the Scan Manager.
Note: *On the Océ TDS700, click on 'Scan Jobs' to open the 'Scan destinations' window.*
- 2 Click on the 'New' button of the toolbar.



- 3 The 'Destination properties' dialogue box appears.
- 4 In the 'Name' text box enter a logical name for the destination.
This logical name also appears on the scanner panel.
- 5 From the 'Type' drop-down list box choose destination type 'FTP'.
- 6 In the 'System' text box enter the name or IP address of the FTP server.

- 7 In the 'User name' text box enter the user account name (local or domain).
If Anonymous Connections are allowed, you can leave the box empty.
- 8 In the 'Password' text box enter the password of the user account (local or domain).
If Anonymous Connections are allowed, you can leave the box empty.
- 9 In the 'Path' text box enter the path to the destination folder (if any).



- 10 Click 'OK'.

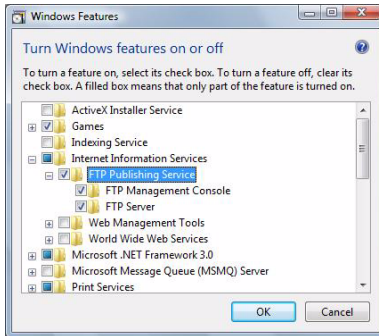
Note: User account name and passwords are not encrypted when sent to the FTP server. This can compromise the local network security.
If authenticated access is required use local account on the destination computer rather than domain user account.

Scan to File to an FTP destination (workstation running under Windows Vista)

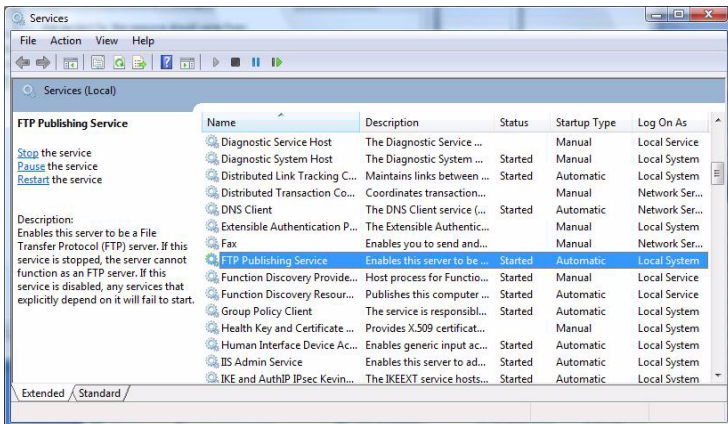
~ Install FTP service

- 1 Open 'Programs and Features' (Start - Control Panel -Programs and Features).
- 2 Click 'Turn Windows features on or off', then 'Continue'.
- 3 Expand 'Internet Information Service'.
- 4 Expand 'FTP Publishing Service'.

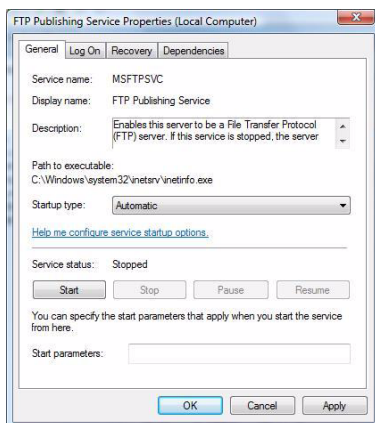
- 5 Verify that 'FTP Management Console' and 'FTP server' are checked:
 - if they are checked, click 'Cancel'. The installation is finished
 - if they are not checked, check them



- 6 Click 'OK'.
Installation will start. Be ready to install Windows CD-ROM when requested.
Reboot the workstation, if requested.
- 7 Go back to 'Control Panel' and open 'Administrative Tools'.
- 8 Double click 'Services', then click 'Continue'.



- 9 Right click 'FTP Publishing Service', then select 'Properties'.



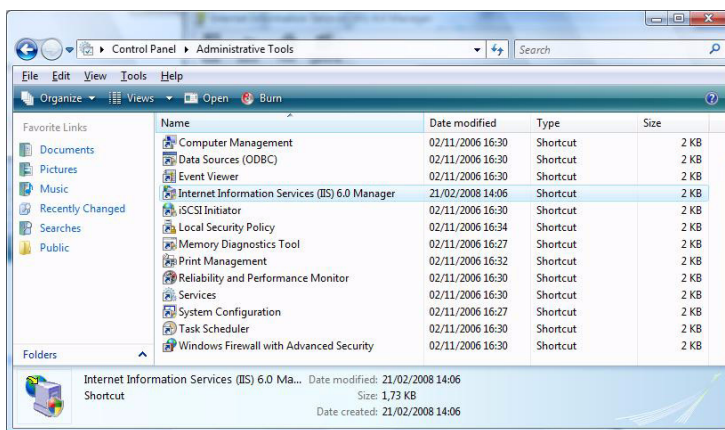
- 10 Set 'Startup type' to 'Automatic', click 'Start', then 'OK'.
- 11 Close 'Services'.

~

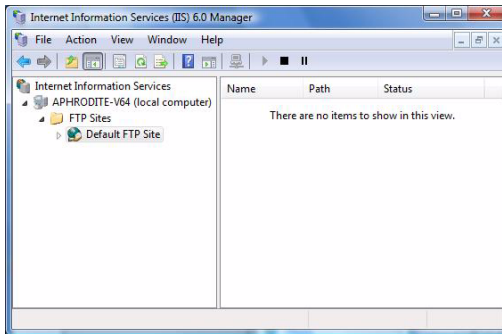
Configure the FTP server on the destination workstation

Note: *When scanning to a Windows Vista destination workstation, you need to configure the workstation Windows Firewall (see 'Scan to File: configuration of Windows XP, Server 2003 and Vista firewall on destination workstation' on page 91).*

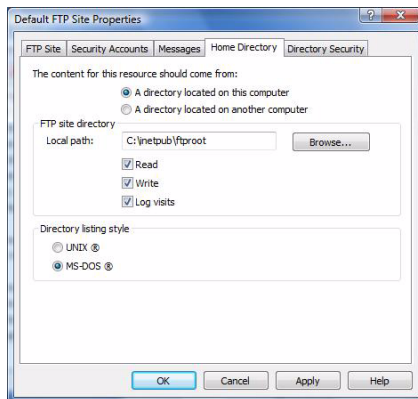
- 1 In not yet done, open 'Administrative Tools' (Start - Control Panel - Administrative Tools).



- 2 Double click 'Internet Information Services (IIS) 6.0 Manager', then click 'Continue'.
- 3 Explore 'local computer', then 'FTP sites'.

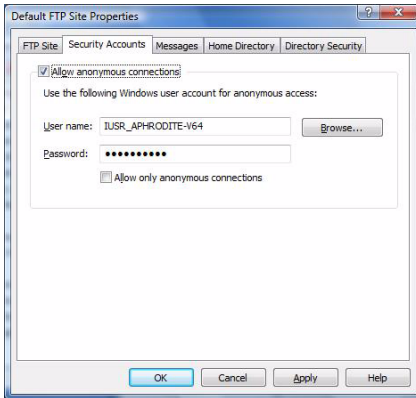


- 4 Right click 'Default FTP Site', then select 'Properties'.
- 5 Select 'Home Directory' tab.

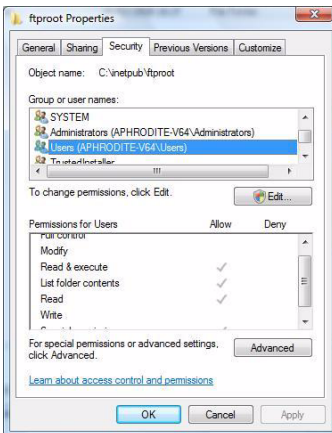


- 6 Configure FTP site directory local path.
Ensure that 'Read' and 'Write' cases are checked.

7 Select 'Security Accounts' tab.

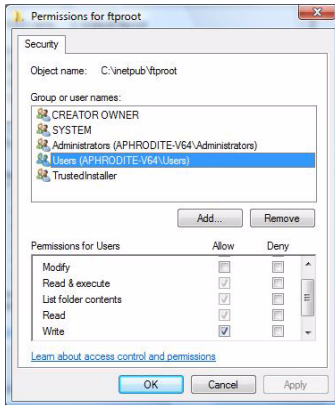


- 8 Uncheck 'Allow anonymous connections' case if only authenticated access is required.
- 9 Click 'OK', close 'Internet Information Services (IIS) 6.0 Manager' and 'Administrative Tools'.
- 10 Open 'Computer' and find the directory defined as FTP site directory local path in step 6.
- 11 Right click the directory, then select 'Properties'.
- 12 Select 'Security' tab.



- 13 Select 'Users' account, click 'Edit', then click 'Continue'.

- 14 Select 'Users' account again, ensure that 'Write' case is checked and click 'OK' twice.



Note: User account name and passwords are not encrypted when sent to the FTP server.

This can compromise the local network security.

If authenticated access is required use local account on the destination computer rather than domain user account.

Scan to File: configuration of Windows XP, Server 2003 and Vista firewall on destination workstation

More and more computers are equipped with a firewall: Windows XP SP2, Server 2003 and Vista platforms includes an internal Windows Firewall activated by default.

Note: In the context of Scan to File via FTP, the FTP Client is located on PLC controller, the FTP Server on the destination workstation.

You must configure the following Firewall settings on the destination workstation when using the Scan to File option with the Océ TDS/TCS systems:

Scan to File using SMB

To use the Scan to File via SMB, open the **TCP port 139** on the destination workstation.

Scan to File using FTP

For Océ TCS400 v2.2.2 / Océ TDS300 v1.1.3 / Océ TDS400 v2.1.3 / Océ TDS600 v4.1.3 / Océ TDS800 v2.1.3 / Océ TDS860 v1.0.1 and higher, **FTP server on the customer workstation must support the PASSIVE mode** and the Firewall settings must be setup accordingly.

<i>Océ PLC controller version</i>	TCS300 / TCS400 v2.2.2+ / TCS500 TDS300 v1.1.3+ / TDS320 / TDS400 v2.1.3+ / TDS450 / TDS600 v4.1.3+ / TDS700 / TDS800 v2.1.3+ / TDS860 v1.0.1+	Previous versions of TCSx00 and TDSxx0 systems
<i>Destination workstation OS</i>		
<i>Windows XP SP1</i>	Open TCP 21 Port on the workstation firewall exception list Note: <i>FTP server must support passive mode.</i>	Open TCP 21 Port in the firewall exceptions list
<i>Windows XP SP2</i> <i>Windows Server 2003</i> <i>Windows Vista</i>	Check FTP Server is enabled in the firewall exceptions list	- Check FTP Server is enabled in the firewall exceptions list OR - Open TCP 21 Port in the firewall exceptions list

[4] Example: Configuration of XP firewall for a Scan to File using FTP

Simple Network Management Protocol (SNMP) on Océ TDS450 v3.1.

It is possible to retrieve information on Océ TDS450 v3.1 by means of SNMP protocol.

The two following Objects Identifiers (OID) are supported:

- ohrDeviceId (OID 1.3.6.1.2.1.25.3.2.1.4)
- oSysDescr (OID 1.3.6.1.2.1.1.1)

SNMP specifications on the Océ TDS450

On the Océ TDS450 Power Logic Controller (PLC controller), you can access the following SNMP parameters:

- Enable/Disable SNMP protocol
- The following community names:
 - ~ Océ Read/Write Community name
 - ~ Océ Read Community name
 - ~ SNMP Community name

These community names can be changed.

Compatibility and performance:

SNMP v1 and v2c are supported.

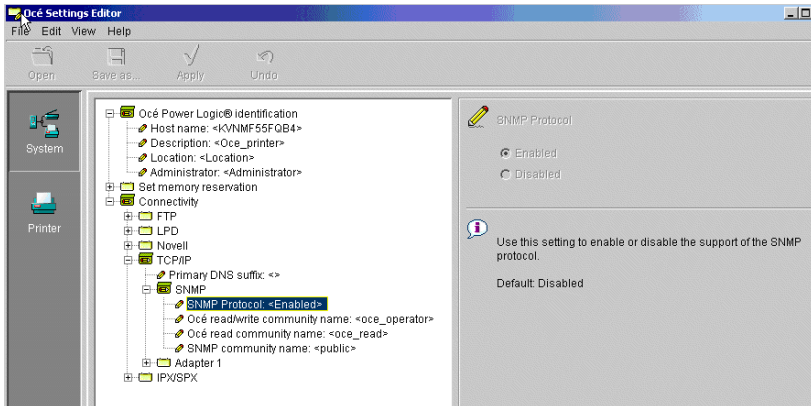
SNMP is available in Normal and Medium security levels.

The TDS450 system is able to handle 25 OIDs get/set requests per seconds.

Description of the SNMP settings on the Océ TDS450 controller

Note: You *MUST* be logged on as a system administrator to access them.

The SNMP parameters are accessible through the Océ Settings Editor. Open 'System - Connectivity - TCP/IP' to access the 'SNMP' settings:



You can access and change the 4 following SNMP parameters:

- 'SNMP protocol' (disabled by default).
- 'Océ read/write community name': usually used by Océ applications to retrieve/set some specific private information.

Note: It is impossible to write OID on the Océ TDS450 system, using SNMP.

- 'Océ read community name': usually used by the Océ drivers to retrieve Océ specific information (public or private).
- 'SNMP community name': mainly used by general SNMP applications to retrieve public information.

It may be advised to change the default value 'public' to avoid any standard application to retrieve SNMP information from devices (IT manager policy).

Before you use the SNMP parameters:

Common SNMP Applications (SNMP browsers, ...) have usually only 2 community name parameters: 'Read community' name and 'Write community' name.

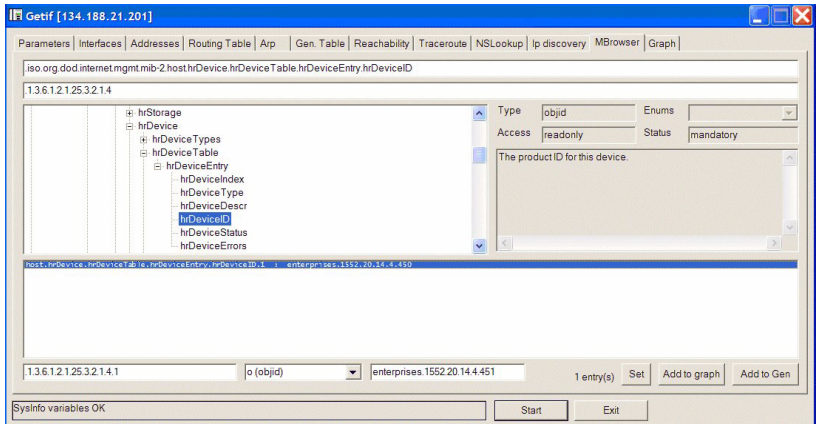
In order to be able to access the SNMP OIDs of the Océ TDS450 v3.1, the SNMP application 'Read community' name must match at least one of the three Océ community names ('SNMP community name', or 'Océ read community name' or 'Océ read/write community name').

Information retrieved from the Océ TDS450 system through SNMP

Only two topics from the Océ TDS450 v3.1 can be retrieved through SNMP:

- hrDeviceId (OID 1.3.6.1.2.1.25.3.2.1.4)

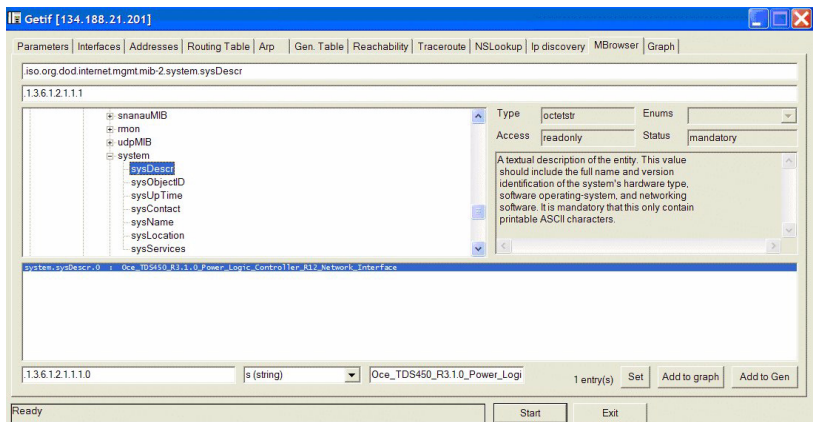
TDS450 3.1 response is **1.3.6.4.4.1.1552.20.14.4.45**



- SysDescr (OID 1.3.6.1.2.1.1.1)

TDS450 3.1 response is

Oce_TDS450_R3.1.0_Power_Logis_Controller_R12_Network_Interface



Troubleshooting

Setup DHCP on an NT based Océ TDS system

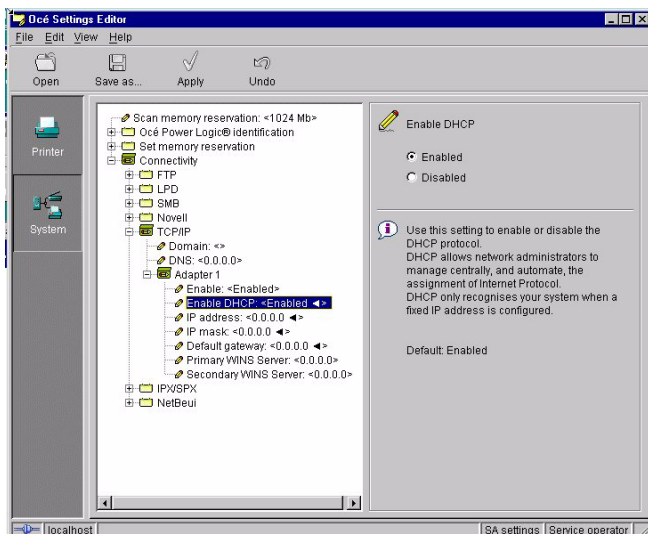
Special attention is required when setting up DHCP through Océ Settings Editor on an NT based Océ TDS system.

When you want to enable DHCP on an Océ TDS/TCS, it is MANDATORY to reset the IP address, IP mask and the Default gateway to the value 0.0.0.0 before applying the parameters and restarting the system.

Otherwise, after a reboot, the controller may remember a static IP address preventing DHCP protocol to work properly.

Enable properly DHCP on an Océ TDS/TCS

- 1 From the Océ Settings Editor, select 'View - SA settings'.
- 2 Click 'System' and select 'Connectivity - TCP/IP - <relevant Adapter>'.
- 3 Log in as System Administrator.
- 4 Enable DHCP.
- 5 Reset IP address to 0.0.0.0.
- 6 Reset IP mask to 0.0.0.0.
- 7 Reset Default gateway to 0.0.0.0.



- 8 Click 'Apply' and reboot the controller.

Network - Solve MTU (Maximum Transfer Unit) troubles

Issue When starting Internet Explorer on a client workstation in order to use Océ Print Exec Workgroup (PEWG) on an Océ TDS/TCS system, the web page opens, but the display is suspended.

Yet, equipment between client workstation and Océ TDS/TCS system is significant; Océ PEWG used on another workstation located close to the Océ TDS/TCS system works properly.

The problem seems to be linked to the network infrastructure.

About MTU (Maximum Transfer Unit)

MTU defines the maximum size of a packet that can be transferred in one frame over a network. Océ TDS system controller MTU is equal to the standard Ethernet value: 1500 bytes.

In a complex Network environment, some equipment may reduce the MTU. MTU reduction produces packet fragmentation. Therefore, some packets may be lost: this results in a communication hang-up between two equipment. In order to avoid fragmentation (and so, the risk of packets loss), the MTU for all network equipment must be equal to or higher than 1500 bytes.

Solution In order to check whether the problem is related to the network MTU, use the following procedure:

~

Check the Network MTU

- 1 If you have a problem between workstation and Océ TDS/TCS system, use the 'ping' utility by setting the -f and -l parameters:
 - The -f parameter causes the Ping utility to send an ICMP echo packet that has the IP 'do not fragment' bit set.
 - The -l parameter sets the buffer (or payload) size of the ICMP echo packet. You specify this size by typing a number after the -l parameter.

The largest buffer that can be sent unfragmented is equal to the smallest MTU existing along a route, minus the IP and ICMP headers (in other words, the smallest MTU minus 28). For example, Ethernet has an MTU of 1500 bytes, so under the best circumstances, the 'ping' utility can echo an unfragmented packet, plus an ICMP buffer, of 1472 bytes (1500 minus 28).

- 2 According to the above explanation, type the following syntax to check whether the MTU is equal or greater than 1500:

```
ping <computer name or IP address> -f -l 1472
```

- If the response is:

```
'Reply from <computer name or IP address>:bytes=1472 time=1ms  
TTL=127'
```

MTU is equal or greater than 1500.

- If the response is:

```
'Packet needs to be fragmented but DF set'
```

MTU is smaller than 1500 and that may explain the network problem. There are interminable segments that have smaller MTUs.

In this case, follow the procedure below to define the MTU between the equipment.

~

Define the MTU between the equipment

- 1 As long as you get the ping return message 'Packet needs to be fragmented but DF set', decrement by one the '-l' parameter.
- 2 Once the ping return message is 'Reply from <computer name or IP address>:bytes=1472 time=1ms TTL=127', note the '-l' parameter value.
- 3 Add 28 to this value. The total gives you the MTU value for all the network between the workstation and the Océ TDS/TCS system.

Note: See also:

<http://support.microsoft.com/default.aspx?scid=kb;EN-US;314825>

Configure DNS server address on an XPe based Océ TDS/TCS

Issue If DHCP is enabled on the XPe based Océ TDS/TCS, changing DNS server IP address is not successful. After clicking on 'Apply' button, the 'Failed to apply at least one of the changed settings' message is displayed.

~

Solution - The following method to be used:

- 1 Disable DHCP and click 'Apply'.
- 2 Click 'OK' when proposed to re-boot the controller and go to the next step.
- 3 Change the DNS server IP address and click 'Apply'.
- 4 Click 'OK' when proposed to re-boot the controller and go to the next step.
- 5 Enable DHCP and click 'Apply'.
- 6 Click 'OK' when proposed to re-boot the controller. Now you can restart the controller.

Impossible to use FTP browsing to retrieve files on the controller

Issue It is impossible to retrieve scanned files browsing the Océ PLC controller: impossible to browse the FTP destination with Internet Explorer, using the URL 'ftp://<TDShostname>/tempstore/scan'.

Note: *Security level is set to STANDARD / Normal.*

Explanations This may occur on some Océ TDS/TCS versions with Océ PLC controller based on XP SP1 version (Océ TDS300 v1.1.2, Océ TDS400 v2.1.2, Océ TDS600 v4.1.2, Océ TDS800 v2.1.2, Océ TDS860 v1.0, Océ TCS400 v2.2 systems). Use one of the following workarounds.

Possible workarounds:

- Make sure that:
 - The 'Use Passive FTP' setting is UNCHECKED (in 'Internet options' / 'Advanced') for Internet Explorer.
 - Internet Explorer is not blocked by your PC workstation firewall (for the Windows Firewall, Internet Explorer should be added to the exception list for this particular FTP requirement).
- Use another FTP client software.
 - Do not select the FTP 'Passive mode', and add this FTP client in the firewall exceptions list.

Note: *Choose this solution in case adding Internet Explorer in the firewall exception list is not allowed by the IT administrator security policy*

- Contact your Océ local representative for an upgrade of the Océ PLC controller.

Note: *This problem is not encountered with the Océ PLC controller based on XPe Service Pack 2 (embedding the last Microsoft Windows Firewall): Océ TDS300 v1.1.3, Océ TDS400 v2.1.3, Océ TDS600 v4.1.3, Océ TDS800 v2.1.3, Océ TDS860 v1.0.1, Océ TCS400 v2.2.2 systems.*

To get more information about FTP Active / Passive modes, please consult the Appendix B on page 261.

Impossible to create a SMB Scan to File destination from a NT based Océ TDS, using IP address

Issue It is impossible to create a SMB Scan to File destination from a NT based Océ TDS using IP address of the computer where the destination shared folder is located. It is caused by a limitation of Océ SMB client implemented in NT based Océ TDS.

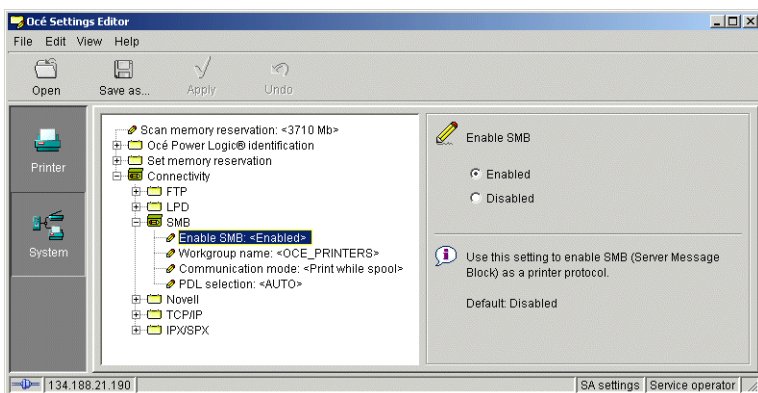
Solution Use hostname instead of IP address.

Impossible to create a SMB Scan to File destination from a XPe based Océ TDS/TCS system, when the SMB printing is disabled

Issue For Océ TDS300 v1.1.1 and higher, Océ TDS400 v2.1.1 and higher, Océ TDS450 v3.0.x, Océ TDS600 v4.1.1 and higher, Océ TDS800 v2.1.1 and higher, Océ TDS860 v1.0 and higher, Océ TCS400 v2.2 and higher and Océ TCS500 v1.1 and below, the SMB printing configuration and default value have changed, in order to increase security. The default value of the 'Enable SMB' setting has been changed to 'Disabled' in the Settings Editor.

As a side effect, in some network configurations (e.g. Windows workgroup without DNS), it is not possible to create a SMB Scan to File destination when the SMB printing is disabled.

Solution To create a SMB Scan to File destination, enable the SMB printing in the Settings Editor:

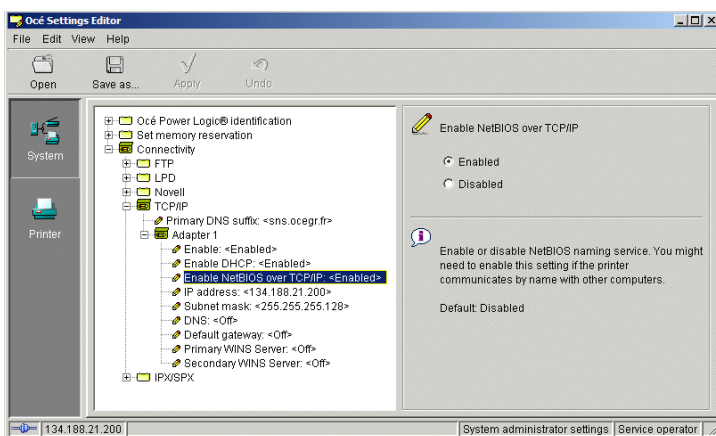


Impossible to create a SMB Scan to File destination from an Océ TCS500 v1.2+, Océ TCS300, Océ TDS700 or Océ TDS450 v3.1+ system, when NetBios over TCP/IP is disabled

Issue For Océ TCS500 v1.2 and higher, Océ TCS300, Océ TDS700 and Océ TDS450 v3.1 and higher, systems, the SMB printing protocol is removed by default.

As a side effect, in some network configurations (e.g. Windows workgroup without DNS), it is not possible to create a SMB Scan to File destination when NetBios over TCP/IP is disabled.

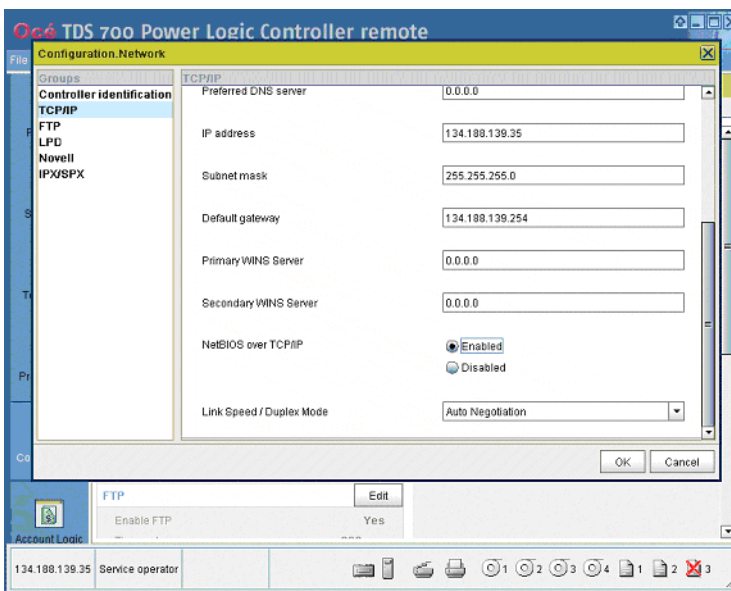
Solution To create a SMB Scan to File destination, enable NetBios over TCP/IP in the Settings Editor:



[5] NetBios over TCP/IP enabled on Océ TCS500



[6] NetBios over TCP/IP enabled on Océ TCS300



[7] NetBios over TCP/IP enabled on Océ TDS700

Impossible to create a SMB Scan to File destination on a domain controller running under Windows Server 2003

Issue When a Windows Server 2003 is promoted to the domain controller, the default value of a registry setting (see below) changes from '0' to '1' (Enabled).

As a result the domain controller's SMB server accepts only digitally signed SMB packets. This feature is not supported by the Océ SMB client used by the Océ Scan Manager. Consequently, the creation of SMB destinations fails.

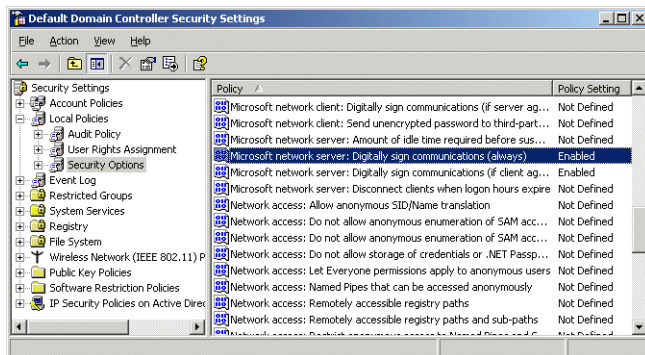
3 Possible solutions:

- You can use another workstation, member server or stand alone server for the Scan to File destination.
- You can upgrade your Océ TDS/TCS system to:
 - Océ TDS300 v1.1.9
 - Océ TDS320 v1.0.9
 - Océ TDS400 v2.1.9
 - Océ TDS600 v4.1.9
 - Océ TDS800 v2.1.9
 - Océ TDS860 v1.0.9
 - Océ TCS400 v2.2.9
- A network administrator can modify the domain controller and disable 'Digitally sign communications', as explained in the following procedure:

~

Disable 'Digitally sign communications':

- 1 Open the 'Domain Controller Security Settings' snap-in ('Start / Programs / Administrative Tools / Domain Controller Security Settings').
- 2 Explore 'Local Policies', then 'Security Options':

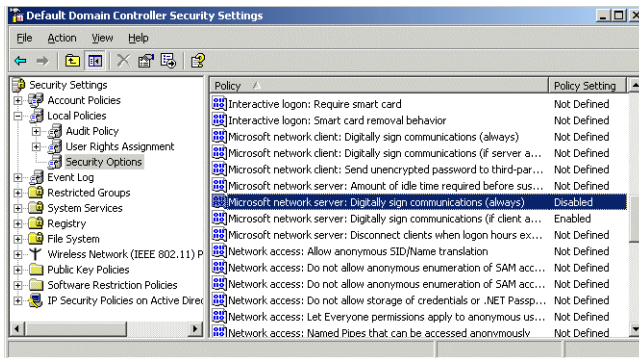


- 3 Double-click 'Microsoft network server: Digitally sign communication (always)' to open the setting properties window.

4 Select 'Disabled' and click OK:

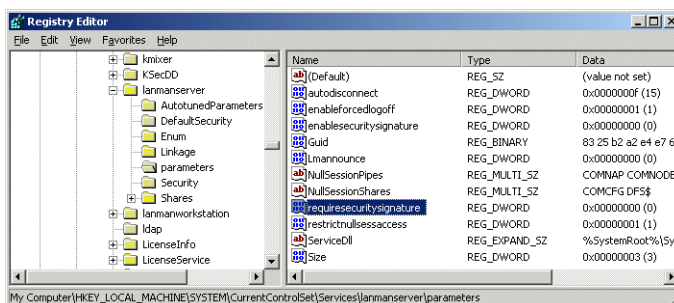


5 Close the 'Domain Controller Security Settings' snap-in.



6 After 5 minutes, the following key in the Registry Editor:

HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Services\lanmanserver\parameters
is automatically set to '0' (Disabled).



SMB destination hostname limited to 14 characters for a NT based Océ TDS

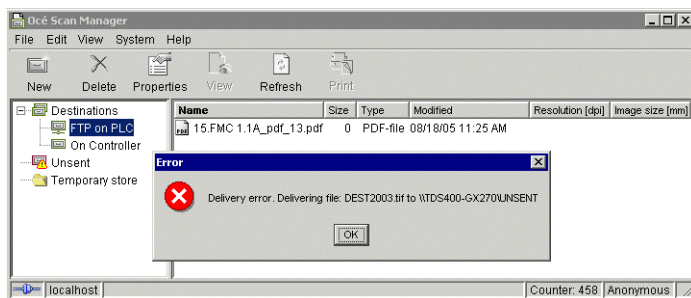
Issue Although hostname is limited to 15 characters by SMB specification, the Océ SMB client implemented in a NT based Océ TDS limits the hostname to 14 characters. Consequently it is impossible to create a SMB Scan to File destination using a 15 characters hostname.

Solution Upgrade your Océ TDS system to Océ TDS400 R1.4.4, Océ TDS600 R3.2.4, or Océ TDS800 R1.3.4. and higher to remove the 14 characters limitation.

Note: *The 15 characters hostname limitation will always exist since it is imposed by SMB specification.*

For a XPe based Océ TDS/TCS, a scanned file cannot be delivered via FTP to the 'jobs' folder of another Océ TDS/TCS

Issue For a XPe based Océ TDS/TCS system, it is possible to create a FTP Scan to File destination on the 'jobs' folder of another Océ TDS/TCS, but the scanned file is not delivered and the following error message pops up:



It is caused by a limitation of the FTP client implemented in the XPe based Océ TDS/TCS system.

Solution Upgrade your Océ TDS/TCS system to Océ TDS300 R1.0.3, Océ TDS400 R2.0.3, Océ TDS600 R4.0.3, Océ TDS800 R2.0.3, Océ TDS860 R1.0.1, Océ TCS400 R2.2.2 and later to remove the limitation.

Note: *This limitation does not exist for NT based Océ TDS.*

How to define the default printing preferences for every user of a printer shared on a print server

When a Printer driver is installed and shared on a Print Server, the administrator can set the printing preferences so that all clients connected to that printer will default to:

~ **Change the driver Printing Preferences on a Windows 2000/XP/Server 2003 print server**

- 1 From Windows 'Start' menu, select 'Settings', 'Printers and Faxes'.
- 2 Right-click the printer for which you want to set the default printing preferences and select 'Properties'.
- 3 On the 'Advanced' tab click the 'Printing Defaults' button.
- 4 Define the default settings.
- 5 Validate.

The changes made will be reflected on the connected print clients.

Attention: *On a Windows 2000/XP/Server 2003 print server, if you define the default settings in 'Printer Preferences...', they will be applied to the local computer only. They will not be the default settings for the client.*

Chapter 3

Citrix Metaframe / Windows

Terminal Server Environments



Introduction

This chapter describes the configurations of printing using WPD in a Windows Terminal Server® and/or Citrix Metaframe® TCP/IP environment:

- Printing on a printer defined in the local printer list of a Client WorkStation.
- Printing on a printer defined on the Windows Terminal Server or Citrix Metaframe Server.
- Printing on a printer defined on an external Print Server.

Print on a printer defined in the local printers list of a client workstation

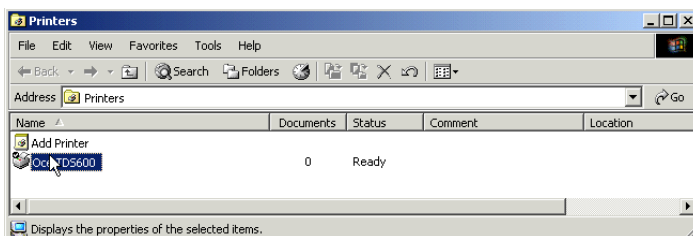
This section describes how to print on a local printer from an application running on:

- a Windows Terminal Server®
- a Citrix Metaframe Server®.

Prerequisite

Firstly install and setup a local printer on the client workstation (refer to the installation procedure described in the Driver User Manual to install the driver on the local client workstation - the Drivers User Manuals are available on www.oce.com).

At the end of the installation, the new printer appears on the workstation printers list (Océ TDS600 on the following example):

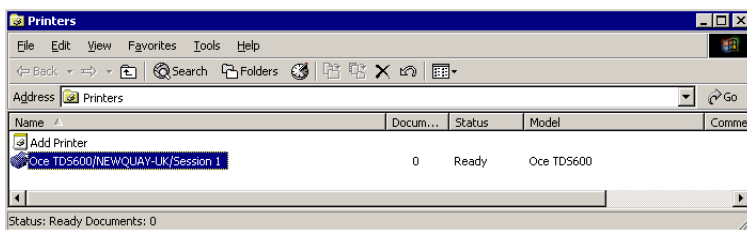


Use a local printer to print from an application running on a Windows Terminal Server®

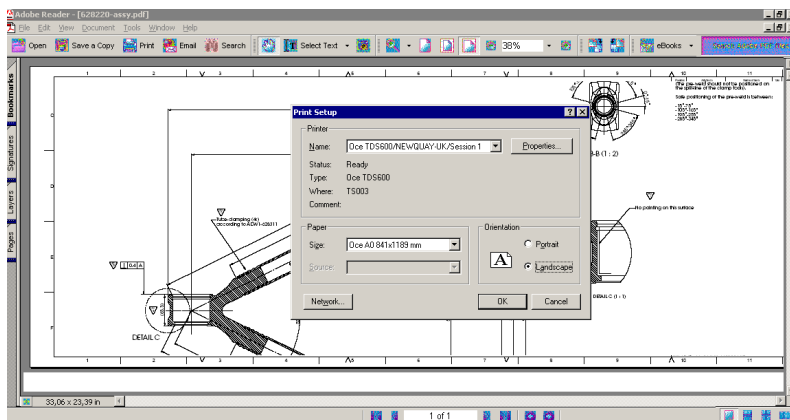
Recommendation: To use the procedure below, install on the client workstation the latest 'Remote Desktop Connection' available on the Microsoft website (<http://www.microsoft.com/windowsxp/pro/downloads/rdclientdl.asp>).

~ **Use a local printer to print from an application running on a Windows Terminal Server**

- 1 Connect the client to the Windows 2000 Terminal Server or Windows Server 2003 Terminal Server by using the 'Remote Desktop Connection'.
- 2 Open the 'Printers (and faxes)' window.
On the list you find the Océ TDS600 printer you have previously defined on the client workstation (named 'NEWQUAY-UK' on the example) on the 'Session 1'.



- 3 Run the remote application (e.g. Adobe Acrobat Reader 6.0®) on the server.
- 4 Print on the Océ TDS600:



Use a local printer to print from an application running on a Citrix Metaframe Server®

Note: Available from any client platform.

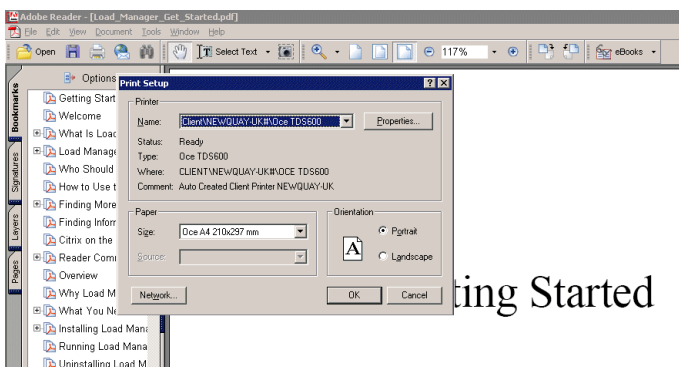
Note: Available on any server platform running Citrix Metaframe XP.

Prerequisite: To use the procedure below, you must install on the client workstation the 'Citrix Program Neighborhood' ICA connection (the procedure below uses the 'Citrix Program Neighborhood' revision 7.00.17534).

~

Use a local printer to print from an application running on a Citrix Metaframe Server

- 1 Connect the client to the Citrix Metaframe Server by using the 'Citrix Program Neighborhood'.
- 2 Run the remote application (e.g. Adobe Acrobat Reader 6.0®).
- 3 Print on the Océ TDS600 printer defined as 'Client\NEWQUAY-UK#OcéTDS600' in the printer list:



Print Job Started

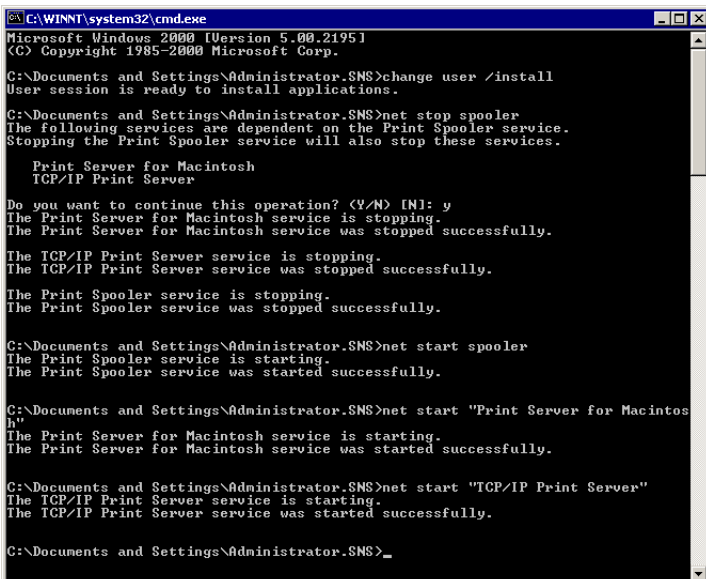
Print on a printer defined on a Windows Terminal Server or on a Citrix Metaframe Server

Install and setup a printer on a Windows Terminal Server or Citrix Metaframe Server

The installation procedure is the same for Windows 2000 Terminal Server, Windows Server 2003 Terminal Server and Citrix Metaframe Server.

***Note:** This procedure describes the installation of the Océ TDS600 printer using the Océ Windows Printer Driver (WPD 1.7).*

- 1 Log on to the server as the Administrator.
- 2 Open a 'Command' window.
- 3 Change the user mode to 'install'.
- 4 Stop and then start the printer spooler:



```
C:\WINNT\system32\cmd.exe
Microsoft Windows 2000 [Version 5.00.2195]
(C) Copyright 1985-2000 Microsoft Corp.

C:\Documents and Settings\Administrator.SNS>change user /install
User session is ready to install applications.

C:\Documents and Settings\Administrator.SNS>net stop spooler
The following services are dependent on the Print Spooler service.
Stopping the Print Spooler service will also stop these services.

    Print Server for Macintosh
    TCP/IP Print Server

Do you want to continue this operation? (Y/N) [N]: y
The Print Server for Macintosh service is stopping.
The Print Server for Macintosh service was stopped successfully.

The TCP/IP Print Server service is stopping.
The TCP/IP Print Server service was stopped successfully.

The Print Spooler service is stopping.
The Print Spooler service was stopped successfully.

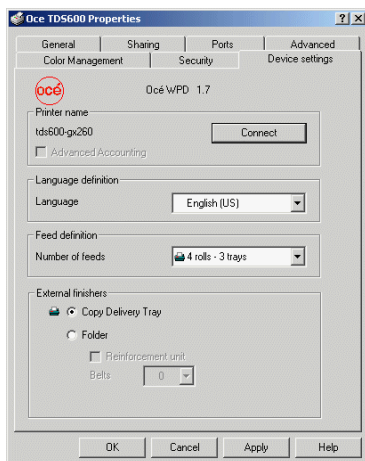
C:\Documents and Settings\Administrator.SNS>net start spooler
The Print Spooler service is starting.
The Print Spooler service was started successfully.

C:\Documents and Settings\Administrator.SNS>net start "Print Server for Macintosh"
The Print Server for Macintosh service is starting.
The Print Server for Macintosh service was started successfully.

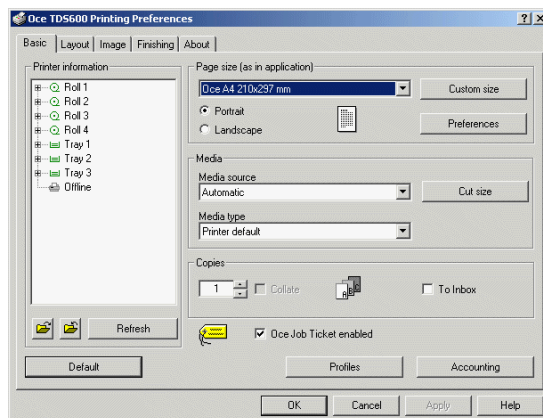
C:\Documents and Settings\Administrator.SNS>net start "TCP/IP Print Server"
The TCP/IP Print Server service is starting.
The TCP/IP Print Server service was started successfully.

C:\Documents and Settings\Administrator.SNS>
```

- 5 To install the printer on the server, follow the procedure described in the section ‘Peer to peer configuration’ on page 66.
Note: *Install the printer locally in the Citrix Metaframe or Windows Terminal Server by using the LPR protocol. Do not share the printer.*
- 6 To setup the printer, access the printer ‘Properties’ (by a right click on the Océ TDS600 printer in the ‘Printers (and faxes)’ window)
- 7 Initialize the backchannel (see the WPD User Manual):

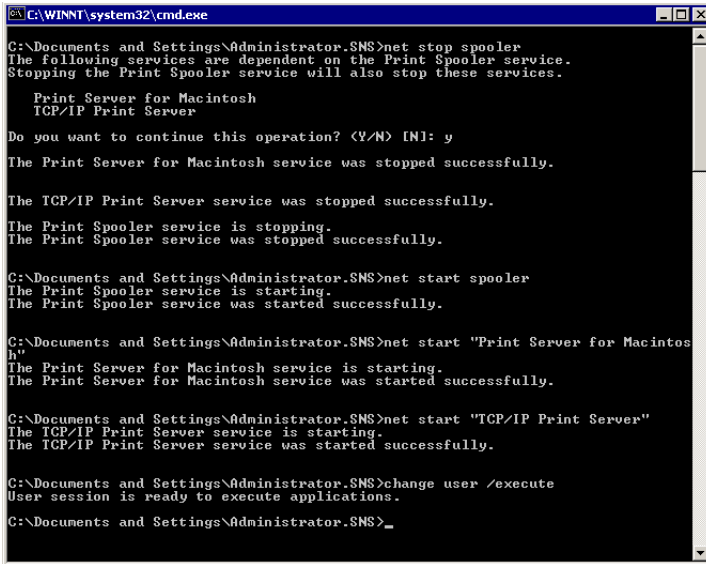


- 8 Setup the ‘Printing preferences...’ (see the WPD User Manual):



- 9 Open a ‘Command’ window.
- 10 Change the user mode to ‘execute’.

11 Stop and start the printer spooler:



```
C:\WINNT\system32\cmd.exe

C:\Documents and Settings\Administrator.SNS>net stop spooler
The following services are dependent on the Print Spooler service.
Stopping the Print Spooler service will also stop these services.

    Print Server for Macintosh
    TCP/IP Print Server

Do you want to continue this operation? <Y/N> [N]: y
The Print Server for Macintosh service was stopped successfully.

The TCP/IP Print Server service was stopped successfully.

The Print Spooler service is stopping.
The Print Spooler service was stopped successfully.

C:\Documents and Settings\Administrator.SNS>net start spooler
The Print Spooler service is starting.
The Print Spooler service was started successfully.

C:\Documents and Settings\Administrator.SNS>net start "Print Server for Macintosh"
The Print Server for Macintosh service is starting.
The Print Server for Macintosh service was started successfully.

C:\Documents and Settings\Administrator.SNS>net start "TCP/IP Print Server"
The TCP/IP Print Server service is starting.
The TCP/IP Print Server service was started successfully.

C:\Documents and Settings\Administrator.SNS>change user /execute
User session is ready to execute applications.

C:\Documents and Settings\Administrator.SNS>_
```

Use the defined printer to print from an application running on a Windows Terminal Server

Note: *Available from any client platform.*

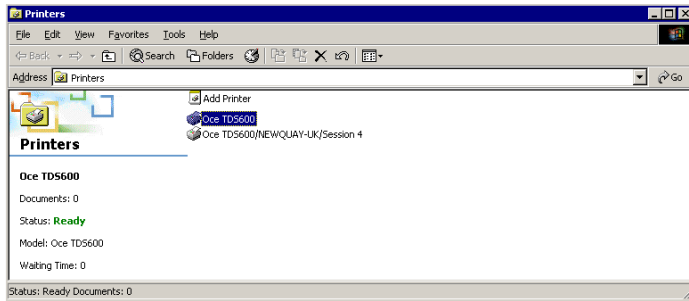
Note: *Available on any server platform running Windows Terminal Server (2000 and Server 2003)*

Recommendation: To use the procedure below, install on the client workstation the latest 'Remote Desktop Connection' available on the Microsoft website (<http://www.microsoft.com/windowsxp/pro/downloads/rdclientdl.asp>).

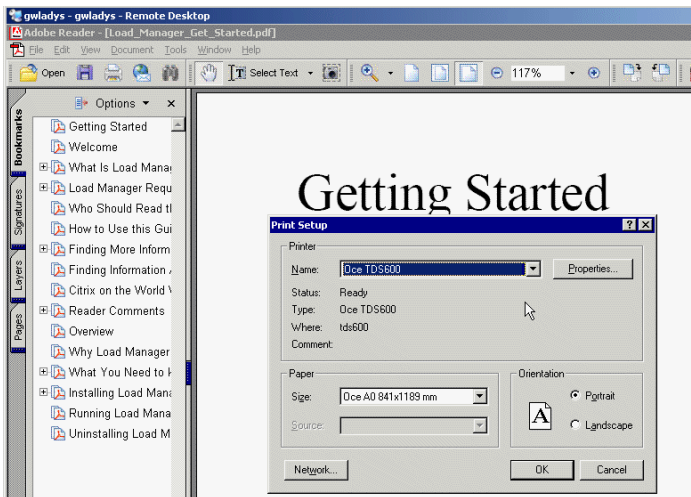
~

Use the defined printer to print from an application running on a Windows Terminal Server

- 1 Connect to the Windows 2000 Terminal Server or Windows Server 2003 Terminal Server by using the 'Remote Desktop Connection'.
- 2 Open the 'Printers (and faxes)' window.
On the list you find the Océ TDS600 printer you have previously defined on the server:



- 3 Run the remote application (e.g. Adobe Acrobat Reader 6.0®).
- 4 Print on the Océ TDS600 printer defined:



Use the defined printer to print from an application running on a Citrix Metaframe Server®

Note: Available from any client platform.

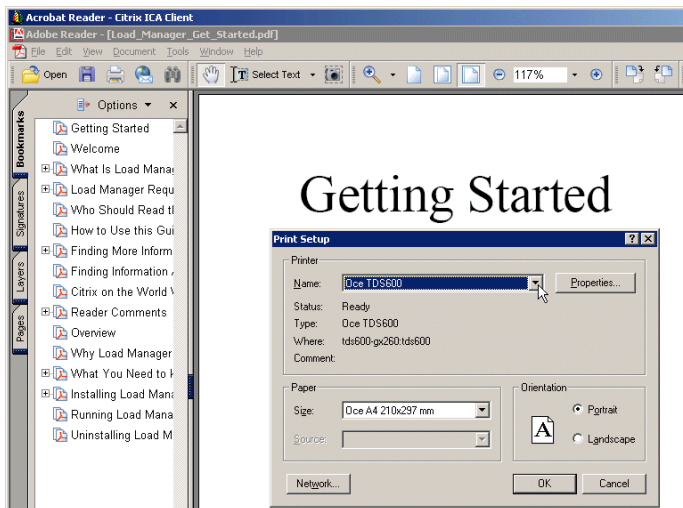
Note: Available on any server platform running Citrix Metaframe XP.

Prerequisite: To use the procedure below, you must install on the client workstation the ‘Citrix Program Neighborhood’ ICA connection (the procedure below uses the ‘Citrix Program Neighborhood’ revision 7.00.17534).

~

Use the defined printer to print from an application running on a Citrix Metaframe Server

- 1 Connect to the Citrix Metaframe Server using the ‘Citrix Program Neighborhood’.
- 2 Run the remote application (e.g. Adobe Acrobat Reader 6.0®).
- 3 Print on the Océ TDS600 printer you have previously defined on the server:

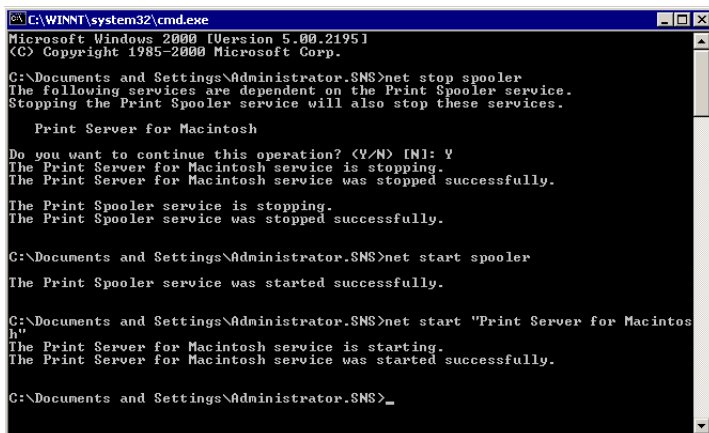


Print on a printer defined on an external Print Server

Note: This feature is available only for a Citrix Metaframe Client.

Install and setup the printer on a Windows Print Server

- 1 Log on to the server as the Administrator.
- 2 Open a 'Command' window.
- 3 Stop and start the printer spooler:



```
C:\WINNT\system32\cmd.exe
Microsoft Windows 2000 [Version 5.00.2195]
(C) Copyright 1985-2000 Microsoft Corp.

C:\Documents and Settings\Administrator.SNS>net stop spooler
The following services are dependent on the Print Spooler service.
Stopping the Print Spooler service will also stop these services.

    Print Server for Macintosh

Do you want to continue this operation? (Y/N) [N]: Y
The Print Server for Macintosh service is stopping.
The Print Server for Macintosh service was stopped successfully.

The Print Spooler service is stopping.
The Print Spooler service was stopped successfully.

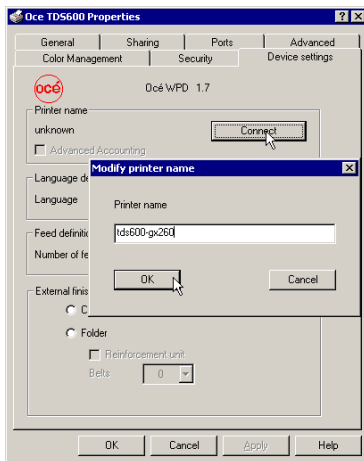
C:\Documents and Settings\Administrator.SNS>net start spooler
The Print Spooler service was started successfully.

C:\Documents and Settings\Administrator.SNS>net start "Print Server for Macintosh"
The Print Server for Macintosh service is starting.
The Print Server for Macintosh service was started successfully.

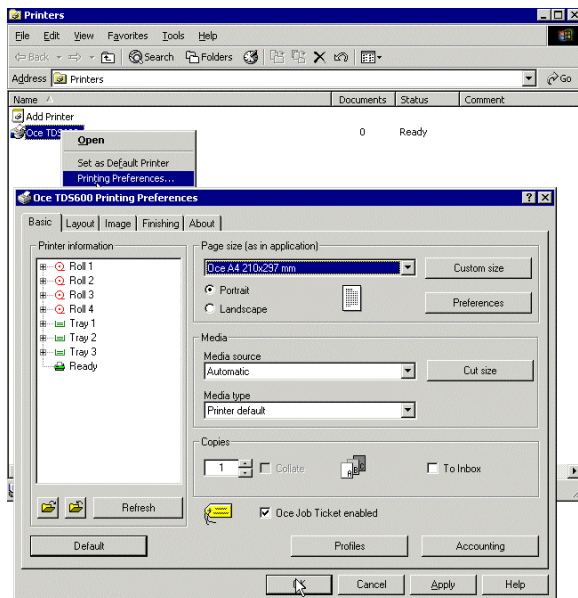
C:\Documents and Settings\Administrator.SNS>_
```

- 4 Install the printer following the procedure described in the section 'Install the print server (using the LPR printing protocol)' on page 52.

- 5 To setup the printer, initialize the backchannel (selecting the printer ‘Properties’; see the driver User Manual for more information):

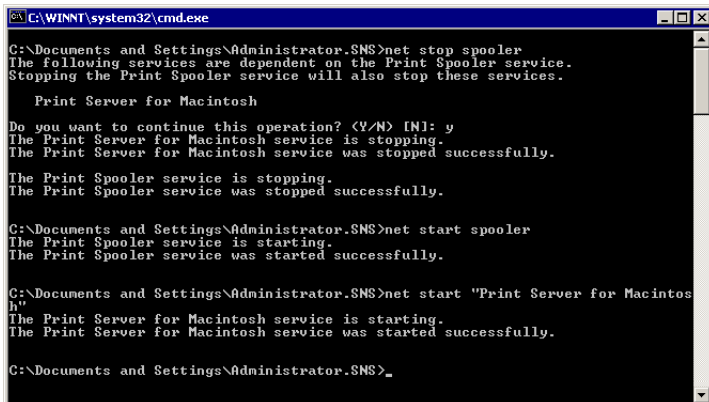


- 6 Setup the ‘Printing preferences’ (selecting the ‘Printing Preferences...’).



- 7 Open a ‘Command’ window.

8 Stop and start the printer spooler:



```
C:\WINNT\system32\cmd.exe

C:\Documents and Settings\Administrator.SNS>net stop spooler
The following services are dependent on the Print Spooler service.
Stopping the Print Spooler service will also stop these services.

    Print Server for Macintosh

Do you want to continue this operation? (Y/N) [N]: y
The Print Server for Macintosh service is stopping.
The Print Server for Macintosh service was stopped successfully.

The Print Spooler service is stopping.
The Print Spooler service was stopped successfully.

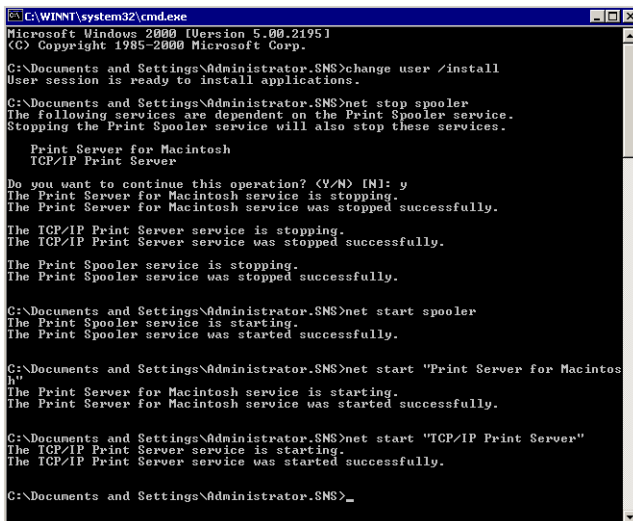
C:\Documents and Settings\Administrator.SNS>net start spooler
The Print Spooler service is starting.
The Print Spooler service was started successfully.

C:\Documents and Settings\Administrator.SNS>net start "Print Server for Macintosh"
The Print Server for Macintosh service is starting.
The Print Server for Macintosh service was started successfully.

C:\Documents and Settings\Administrator.SNS>_
```

Install the printer driver on the Citrix Metaframe Server

- 1 Log on to the server as the Administrator.
- 2 Open a 'Command' window.
- 3 Change the user mode to 'install'.
- 4 Stop and start the printer spooler:



```
C:\WINNT\system32\cmd.exe

Microsoft Windows 2000 [Version 5.00.2195]
(C) Copyright 1985-2000 Microsoft Corp.

C:\Documents and Settings\Administrator.SNS>change user /install
User session is ready to install applications.

C:\Documents and Settings\Administrator.SNS>net stop spooler
The following services are dependent on the Print Spooler service.
Stopping the Print Spooler service will also stop these services.

    Print Server for Macintosh
    TCP/IP Print Server

Do you want to continue this operation? (Y/N) [N]: y
The Print Server for Macintosh service is stopping.
The Print Server for Macintosh service was stopped successfully.

The TCP/IP Print Server service is stopping.
The TCP/IP Print Server service was stopped successfully.

The Print Spooler service is stopping.
The Print Spooler service was stopped successfully.

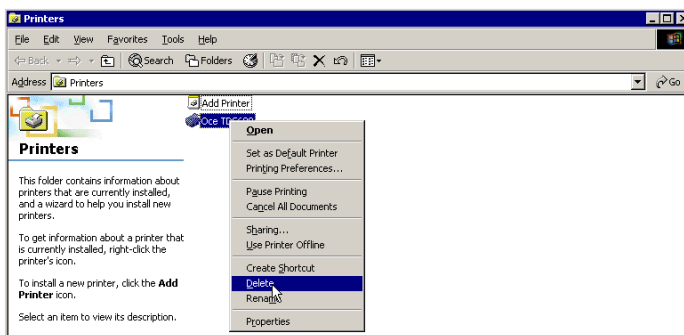
C:\Documents and Settings\Administrator.SNS>net start spooler
The Print Spooler service is starting.
The Print Spooler service was started successfully.

C:\Documents and Settings\Administrator.SNS>net start "Print Server for Macintosh"
The Print Server for Macintosh service is starting.
The Print Server for Macintosh service was started successfully.

C:\Documents and Settings\Administrator.SNS>net start "TCP/IP Print Server"
The TCP/IP Print Server service is starting.
The TCP/IP Print Server service was started successfully.

C:\Documents and Settings\Administrator.SNS>_
```

- 5 To install the printer driver locally on the Citrix Metaframe Server, follow the procedure described in the section ‘Peer to peer configuration’ on page 66.
Note: *Install the printer locally in the Citrix Metaframe by using the LPR protocol. Do not share the printer.*
- 6 Remove the printer from the ‘Printers (and faxes)’ list:



- 7 Open a ‘Command’ window.
- 8 Change the user mode to ‘execute’.
- 9 Stop and start the printer spooler:

```

C:\WINNT\system32\cmd.exe

C:\Documents and Settings\Administrator.SNS>net stop spooler
The following services are dependent on the Print Spooler service.
Stopping the Print Spooler service will also stop these services.

    Print Server for Macintosh
    TCP/IP Print Server

Do you want to continue this operation? (Y/N) [N]: y
The Print Server for Macintosh service was stopped successfully.

The TCP/IP Print Server service was stopped successfully.

The Print Spooler service is stopping.
The Print Spooler service was stopped successfully.

C:\Documents and Settings\Administrator.SNS>net start spooler
The Print Spooler service is starting.
The Print Spooler service was started successfully.

C:\Documents and Settings\Administrator.SNS>net start "Print Server for Macintosh"
The Print Server for Macintosh service is starting.
The Print Server for Macintosh service was started successfully.

C:\Documents and Settings\Administrator.SNS>net start "TCP/IP Print Server"
The TCP/IP Print Server service is starting.
The TCP/IP Print Server service was started successfully.

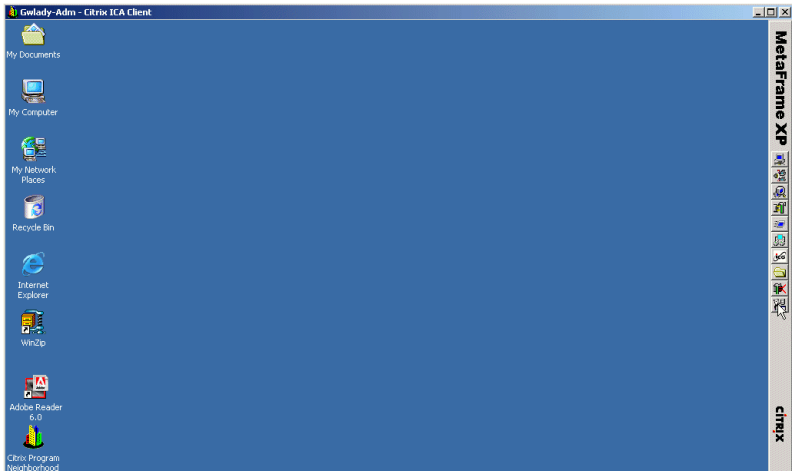
C:\Documents and Settings\Administrator.SNS>change user /execute
User session is ready to execute applications.

C:\Documents and Settings\Administrator.SNS>_

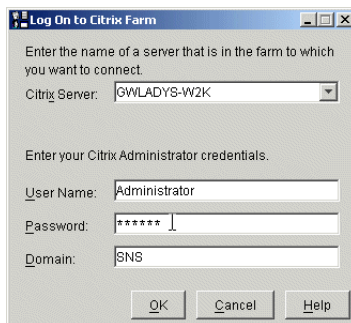
```

Install the network printer (setup on the Print Server) in the Citrix Farm to be used by the Citrix Clients

- 1 Log on to the Citrix Metaframe Server as the Citrix Administrator.
- 2 Launch the 'Citrix Management Console' application:



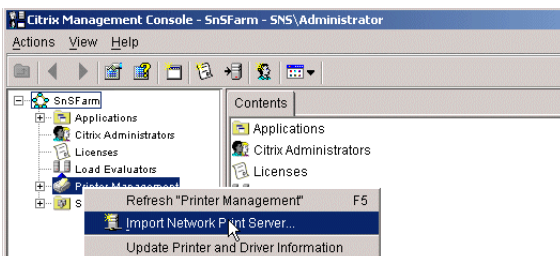
- 3 Log on to Citrix Farm:



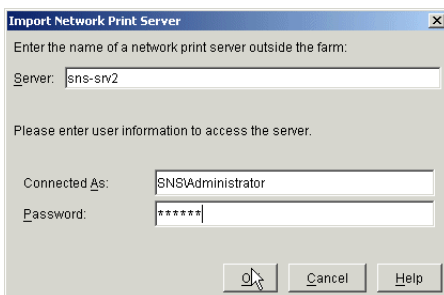
- 4 Follow the procedure below to declare the printer on the Citrix Farm, in order enable the Citrix clients to use it.

Declare the printer (setup on the Print Server) on the Citrix Farm

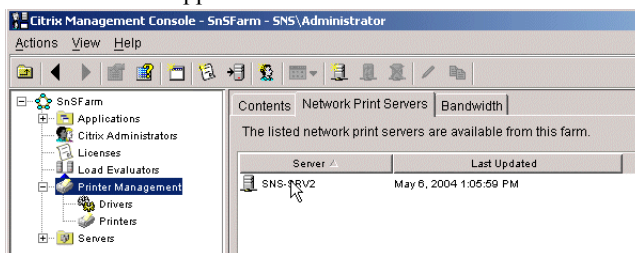
- 1 In the Citrix Management Console, right-click on 'Printer Management' and select 'Import Network Print Server...':



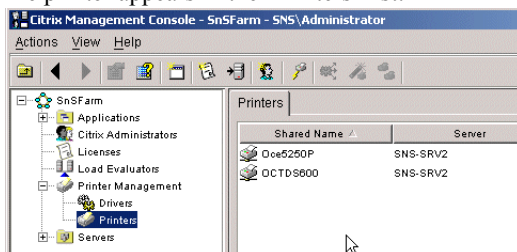
- 2 Log on to the Print Server:



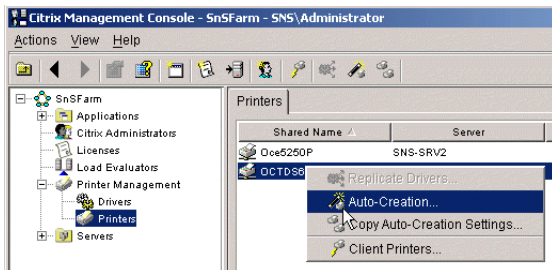
The Print Server appears in the 'Network Print Servers' list:



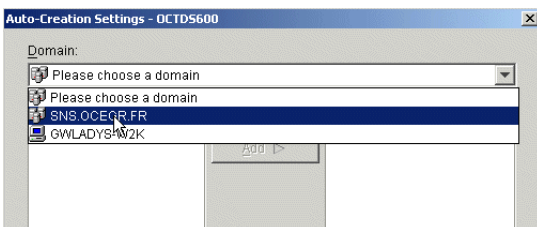
The printer appears in the 'Printers' list:



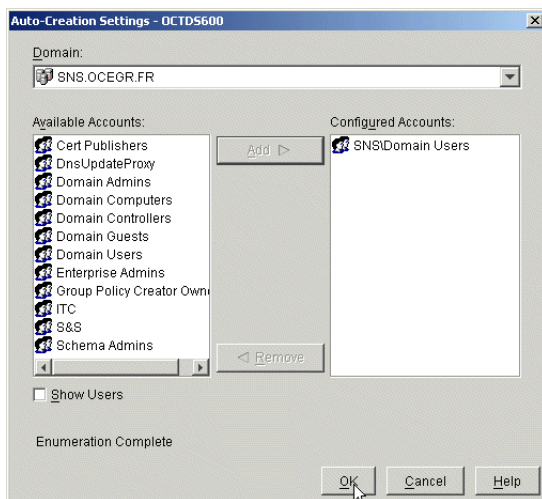
- 3 To setup the network printer to enable the printing from Citrix Clients, launch the 'Auto-Creation...' wizard:



- 4 Select the domain on which you want to declare the network printer:



- 5 Add the users allowed to access the printer:



- 6 Click 'OK' to validate.
- 7 Exit the Citrix Management Console.

Use the defined printer to print from an application running on a Citrix Metaframe Server

Note: Available from any client platform.

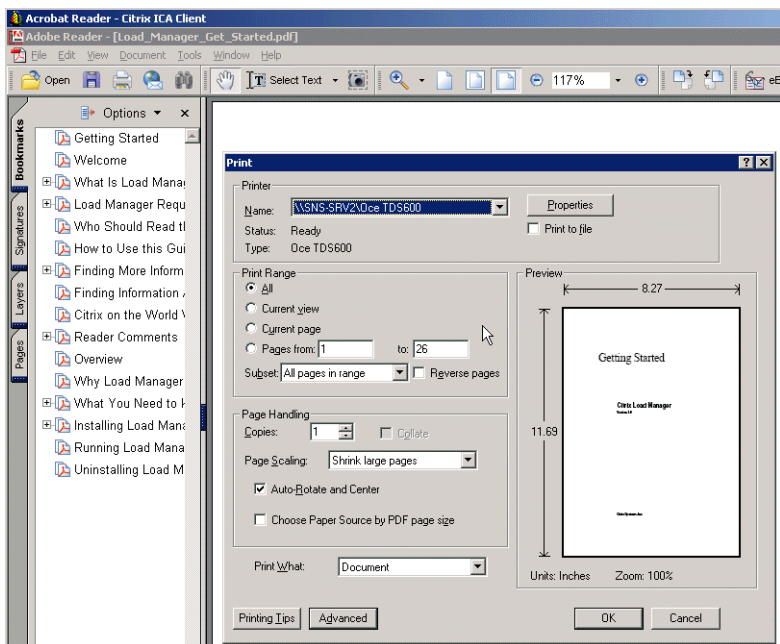
Note: Available on any server platform running Citrix Metaframe XP.

Prerequisite: To use the procedure below, you must install on the client workstation the 'Citrix Program Neighborhood' ICA connection (the procedure below uses the 'Citrix Program Neighborhood' revision 7.00.17534).

~

Use the defined printer to print from an application running on a Citrix Metaframe Server

- 1 Connect to the Citrix Metaframe Server using the 'Citrix Program Neighborhood'.
- 2 Run the remote application (e.g. Adobe Acrobat Reader 6.0®).
- 3 Print on the Océ TDS600 printer (previously defined) appearing as '\\SNS-SRV2\Oce TDS600':



Chapter 4

Novell Environment

This chapter describes how to setup the Océ controller to make it work in a Novell environment.



Introduction

There are two methods to print on the Océ printers in a Novell environment:

- using Novell® Queue Based Network Printing (traditional or legacy implementation of print services provided through NetWare®.)

Note: *This method is available on NetWare® 4.x, 5.x, 6.x and is applicable to the Océ TDS/TCS systems only.*

Note: *The PSERVER printing method does not apply to the Océ ColorWave 600 system.*

- using Novell® Distributed Print Services® (NDPS®), the default print system in NetWare® 5 and NetWare® 6.

Note: *The NDPS and iPrint printing methods apply to all Océ TDS/TCS and ColorWave 600 systems.*

This chapter describes how to setup the customer environment to print on an Océ TDS/TCS/ColorWave 600 with one of these methods.

Examples given are extracted from different installation processes (TDS400, TDS600, TDS800 and TCS400). However, those examples apply also to the other printer models, according to the print method they support.

References

For more details, please refer to the Novell administration guides:

- For Queue Based Printing:

<http://www.novell.com/documentation/lg/nw51/pdfdoc/10412291.pdf>

- For NDPS:

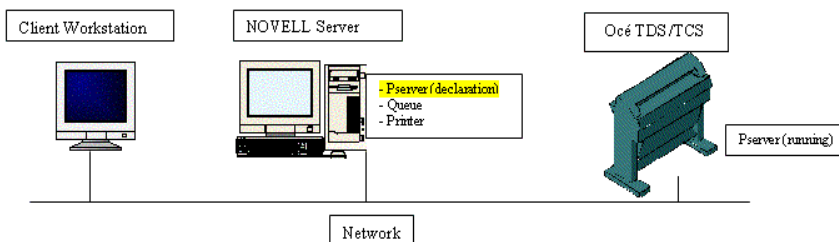
http://www.novell.com/documentation/lg/nw6p/pdfdoc/ndps_enu/ndps_enu.pdf

PSERVER Setup

Note: This section does not apply to the Océ ColorWave 600 system.

Queue Based Printing

A Print Server running on the TDS/TCS controller connects to a Novell Server. A client sends jobs to a queue on the Novell Server. The Océ TDS/TCS controller Print Server which regularly requests jobs to the Novell Server (polling mode) retrieves those jobs and prints them.



[8] Overview of Queue based Printing

Configuration

You need to configure not only the Client Workstation and the Océ TDS/TCS but also the Novell Server in order to establish the connection between the Océ 'Print Server' (on Océ TDS/TCS printer controller) and the Novell Server.

Note: The Peer-to-Peer connection does not exist on IPX/SPX protocol.

~

Set up the environment

- 1 Setup the Océ TDS/TCS Controller, and DO NOT reboot it.
- 2 Setup the end user environment (Novell Server).
- 3 Reboot the Océ TDS/TCS Controller.
- 4 Check Océ TDS/TCS Print Server status on Novell Server.
- 5 Setup the Client Workstation (driver installation).
- 6 Print a test page to check the setup is correct.

Note: These steps are described in the following sections.

Controller Setup

In order to run into an IPX/SPX Environment, some parameters have to be setup:

- enable Novell protocol
- setup Pserver Name & Password
- setup Bindery Access Mode or NDS Access Mode
- setup the preferred file servers

Note: *On Océ TCS300 and TDS700 controller, define the same Novell settings through the Océ Settings Editor (in a web browser). The Novell settings are available in the 'Network' section of the 'Configuration' tab.*

The screenshot displays the Océ TCS300 web interface. The address bar shows a URL: `http://TCS300[SettingEditor/settingDialog.jsp?groupId=configuration/network/novellcurrentPage=configuration(network_configuration_network_novell.jsp]`. The interface has a top navigation bar with 'Preferences', 'Configuration', and 'Support' tabs. Under 'Configuration', there are sub-tabs for 'Overview', 'Network', and 'PDLs'. The 'Network' sub-tab is active, and a 'Novell' configuration window is open. This window contains the following settings:

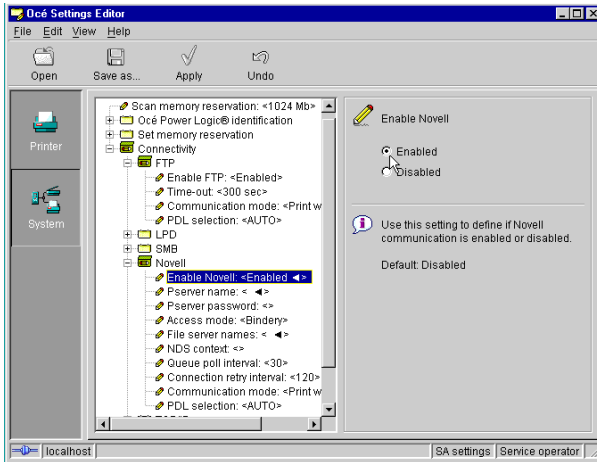
- Novell**: ☒
- IPX/SPX**: ☒
- PSEVER name**:
- PSEVER password**:
- Access mode**: ☒ Bindery, ☐ NDS
- File server names**:
- NDS context**:
- Queue poll interval**: s
- Connection retry interval**: s
- Communication mode**: ☒ Print while spool, ☐ Spool then print
- PDL selection**:

At the bottom of the window are 'Ok' and 'Cancel' buttons. The background interface shows a sidebar with categories like 'Identify', 'TCP/IP', 'FTP', 'LPR', and 'Novell'. The 'Novell' category at the bottom is currently set to 'Enabled'.

~ **Enable the IPX/SPX Novell protocol.**

Note: *You MUST be logged as a 'System Administrator'.*

- 1 Switch the Océ Settings Editor in SA Mode (see page 257).
- 2 Expand the 'Connectivity' Folder.
- 3 Expand the 'Novell' folder.
- 4 Select 'Enable Novell' document.
- 5 Select 'Enable' on the right window ('Enable Novell').

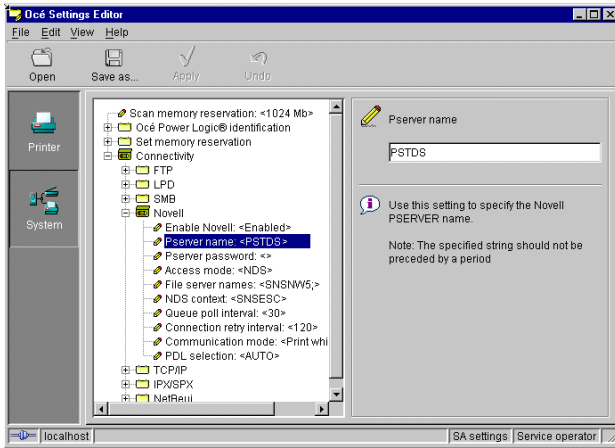


- 6 Click 'Apply'.
- 7 Setup the other parameters.
- 8 Once all setups are done, configure Novell Server BEFORE rebooting the controller (see 'Reboot the controller' on page 259).

Setup the Print Server Name (PSERVER)

Note: *You MUST be logged as a 'System Administrator'.*

- 1 Switch the Océ Settings Editor in SA Mode (see page 257).
- 2 Expand the 'Connectivity' Folder.
- 3 Expand the 'Novell' folder.
- 4 Select 'Pserver name' document.
- 5 Type in the Print Server name into the input field in the right window ('Pserver name'):



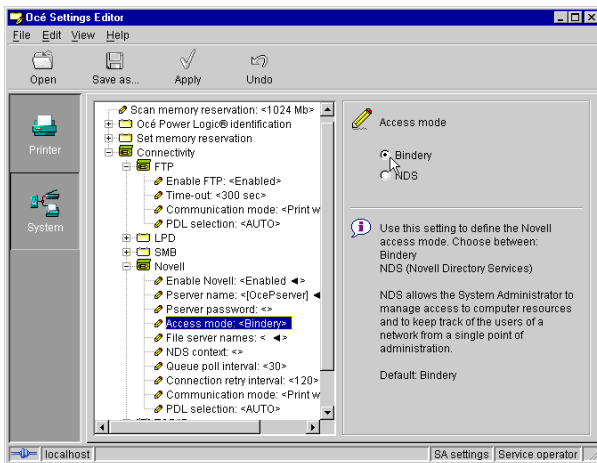
- 6 Click 'Apply'.
- 7 Setup the other parameters.
- 8 Once all setups are done, configure Novell Server BEFORE rebooting the controller (see 'Reboot the controller' on page 259).

~

Setup the controller to work in Bindery Access Mode

Note: You *MUST* be logged as a 'System Administrator'.

- 1 Switch the Océ Settings Editor in SA Mode (see page 257).
- 2 Expand the 'Connectivity' Folder.
- 3 Expand the 'Novell' folder.
- 4 Select 'Access Mode' document.
- 5 Select 'Bindery' on the right window ('Access Mode'):

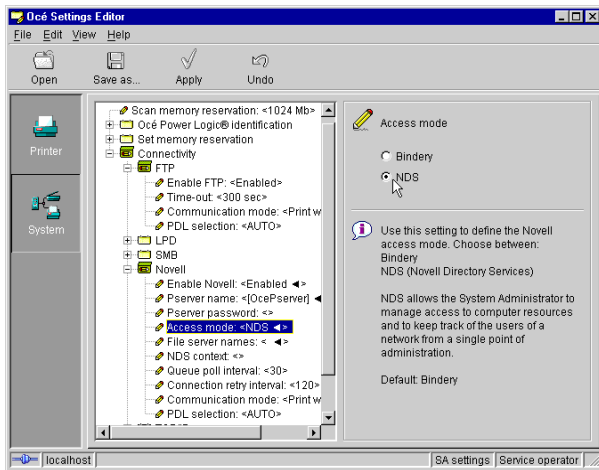


- 6 Click 'Apply'.
- 7 Setup the other parameters.
- 8 Once all setups are done, configure Novell Server BEFORE rebooting the controller (see 'Reboot the controller' on page 259).

Setup the controller to work in NDS Access Mode

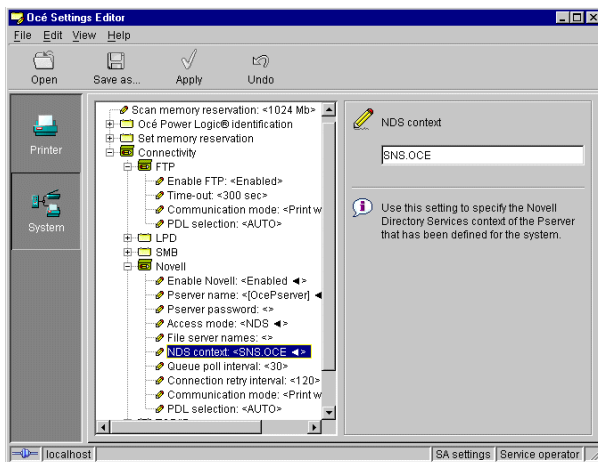
Note: *You MUST be logged as a 'System Administrator'.*

- 1 Switch the Océ Settings Editor in SA Mode (see page 257).
- 2 Expand the 'Connectivity' Folder.
- 3 Expand the 'Novell' folder.
- 4 Select 'Access Mode' document.
- 5 Select 'NDS' on the right window ('Access Mode'):



- 6 In the Novell folder, select 'NDS Context' document.

- 7 Type in the context where the TDS/TCS will be installed (ex: SNSDESC) into the input field in the right window ('NDS Context').
Here are different NDS context examples you can set in this field:
NDS context: SNSDESC
NDS context: SNS.OCE
NDS context: OU=SNS.O=OCE
NDS context: OU=SNS.O=OCE.C=FR
(see 'Queue Based Printing Troubleshooting' on page 209).

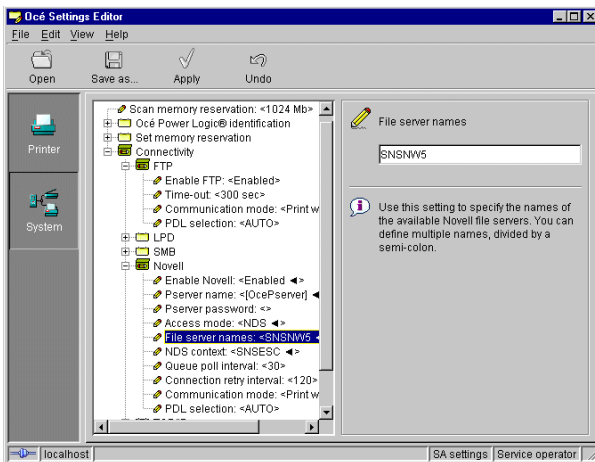


- 8 Click 'Apply'.
- 9 Setup the other parameters.
- 10 Once all setups are done, configure Novell Server BEFORE rebooting the controller (see 'Reboot the controller' on page 259).

~ **Setup the Novell File servers which the printer connects to.**

Note: *You MUST be logged as a System Administrator.*

- 1 Switch the Océ Settings Editor in SA Mode (see page 257).
- 2 Expand the 'Connectivity' Folder.
- 3 Expand the 'Novell' folder.
- 4 Select 'File server names' document.
- 5 Type in the names of the Novell File Server(s) to which this printer will be connected -using the ';' as separator if more than one Server is specified (Ex: 'SNSNW5' or 'SPSNW4;SNSNW5') into the input field in the right window ('File server names').



- 6 Click 'Apply'.
- 7 Setup the other parameters.
- 8 Once all setups are done, configure Novell Server BEFORE rebooting the controller (see 'Reboot the controller' on page 259).


Result of the Novell settings configuration on the Océ TCS300 controller

Address <http://TCS300/SettingsEditor/storeSettings.do>

Océ TCS300 [Log out](#) [Help](#)

Preferences Configuration Support

Overview Network PDLs

 Network connection and protocols.

Identification [Edit](#)

Setting	Value
Host name	TCS300
Description	Océ_printer
Location	Location
Administrator	Administrator

TCP/IP [Edit](#)

Setting	Value
Primary DNS suffix	
Enable DHCP	Enabled
Enable NetBIOS over TCP/IP	Enabled
IP address	134.188.21.200
Subnet mask	255.255.255.128
Primary DNS server	By DHCP
Default gateway	By DHCP
Primary WINS server	By DHCP
Secondary WINS server	By DHCP

FTP [Edit](#)

Setting	Value
FTP	Enabled
Time-out	300 s
Communication mode	Print while spool
PDL selection	Automatic

Novell [Edit](#)

Setting	Value
Novell	Enabled
IPX/SPX	Enabled
PSERVER name	OcéPserver
PSERVER password	*****
Access mode	NDS
File server names	
NDS context	SNS.OCE
Queue poll interval	30 s
Connection retry interval	120 s
Communication mode	Print while spool
PDL selection	Automatic

[Collapse](#)

Result of the Novell settings configuration on the Océ TDS700 controller

Configuration Network

Groups

Controller identification

TCP/IP

FTP

LPD

Novell

IPX/SPX

Novell

Enable Novell

Enabled

Disabled

Pserver name

OcePserver

Pserver password

Access mode

Bindery

NDS

File server names

NDS context

SNS.OCE

Queue poll interval

30

OK

Cancel

Configuration Network

Groups

Controller identification

TCP/IP

FTP

LPD

Novell

IPX/SPX

Novell

Access mode

Bindery

NDS

File server names

NDS context

SNS.OCE

Queue poll interval

30

Connection retry interval

120

Communication mode

Print while spool

Spool then print

PDL selection

AUTO

OK

Cancel

Novell Server Setup

This section is aimed at the Local Network Administrator. It describes:

- how to setup the End User Site Environment for sharing the Océ TDS/TCS printer resource on his LAN by using the IPX/SPX protocol.
- how to setup, in a Client/Server Environment, a Novell File Server (by using the Print Server embedded in the Océ TDS/TCS Printer Controller).

To allow a Novell Client to access the Océ TDS/TCS Print Resource, you have to setup the Novell File Server in order to establish the connection between this Novell File Server and the Océ 'Print Server' you previously setup on the Océ TDS/TCS Printer Controller.

The following procedures describe how to setup on:

- Novell 4.x File Server / NDS Mode
- Novell 5.x File Server / NDS Mode
- Novell 6.x File Server / NDS Mode

Note: *The Bindery mode is available on Novell 4.x, Novell 5.x and Novell 6.x, but we recommend to use NDS mode on such File Servers.*

Note: *You MUST be logged on as Novell System Administrator on any Windows WorkStation running Novell Client 32 over any MicroSoft Windows Operating System.*

Novell 4.x File Server Setup

Note: *It is recommended to use the NDS mode when using Novell 4.x.*

Three printing objects must be created on the Novell Server:

- A Print Server object (the name must be identical to the *Pserver name* parameter setup in the Océ TDS/TCS controller by means of the Settings Editor, refer to the Controller setup section)
- A Queue object
- A Printer object

These 3 objects must be linked together and you have to check the Océ TDS/TCS Print Server is connected to the Novell Server.

Note the following parameters used in our example, some of them must be set up on the Océ TDS/TCS Controller:

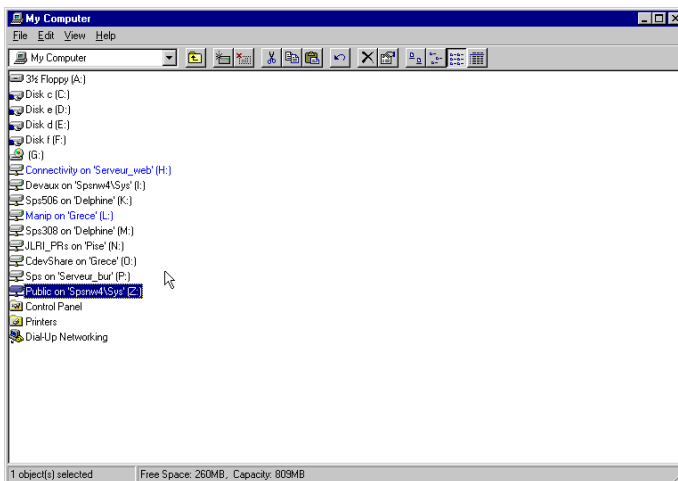
- Novell Context: *SPSESC* (to be set on the controller)
- Novell Tree: *SPSESC*
- Novell File server: *SPSNW4* (to be set on the controller)

- Océ TDS/TCS Print Server Name: *PSTCS* (to be set on the controller and the Novell File Server)
- Océ TDS/TCS Printer Name: *TCS* (to be set on the Novell File Server)
- Océ TDS/TCS Printer Queue Name: *QTCS* (to be set on the Novell File Server)

~

Launch the Administration task

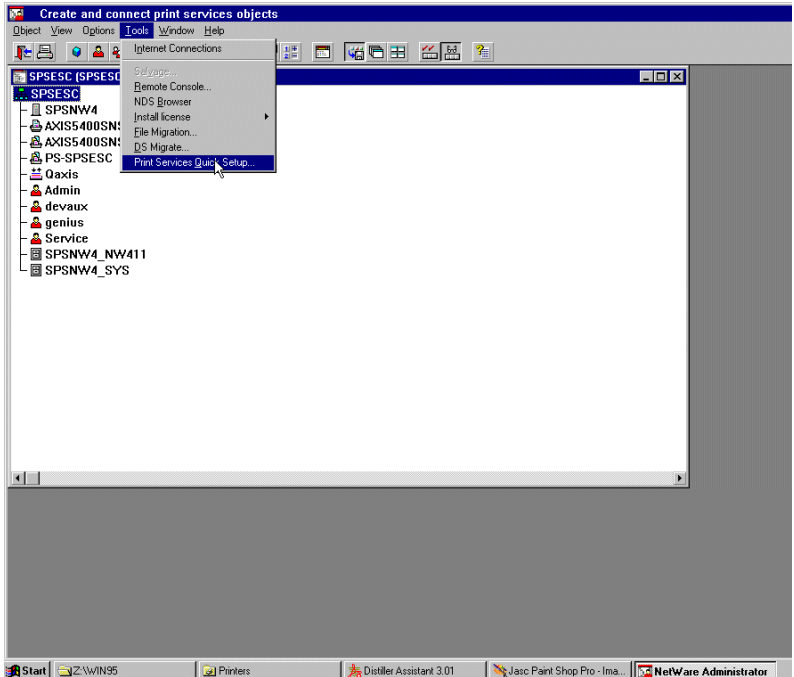
- 1 Logon as System Administrator on your client workstation, using the proper Context, Tree and Server.
- 2 Open 'My Computer', locate and expand the \Public Directory:



- 3 Double-click Nwadmin.exe to launch the Administration Task.

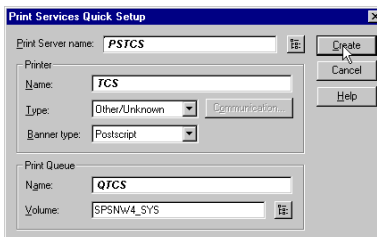
Setup the print resource on the Novell File Server

- 1 Browse and open the proper Context (SPSESC).
- 2 Select the proper Tree (SPSESC).
- 3 From the 'Tools' menu, select 'Print Service Quick Setup':

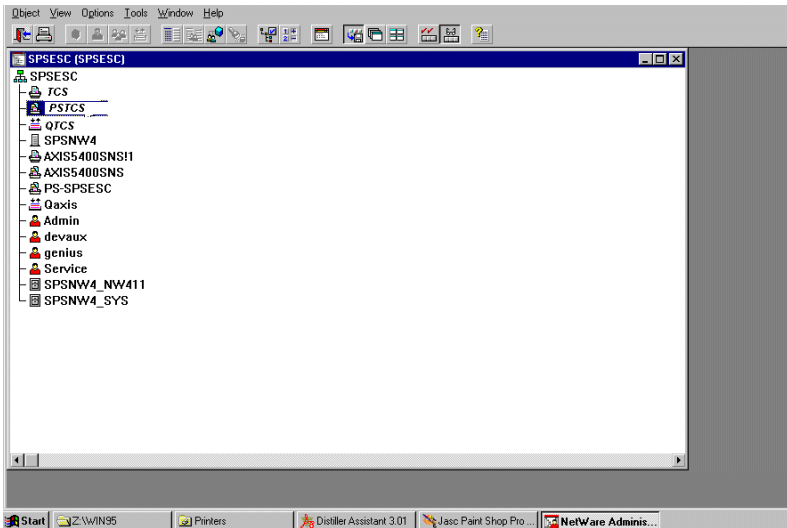


The 'Print Service Quick Setup' window is displayed.

- 4 Fill in the following fields:
 - 'Print Server Name'
 - 'Printer Name'
 - 'Printer Type' (select 'Other/Unknown')
 - 'Printer Banner Type' (select 'PostScript')
 - 'Print Queue Name'



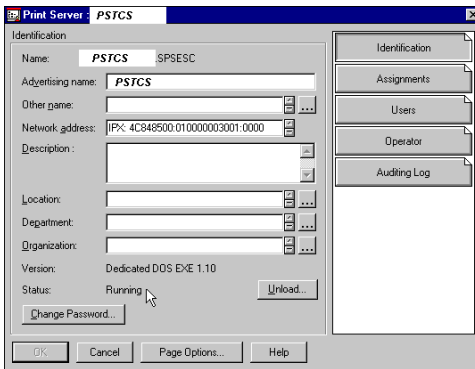
- 5 Click 'Create'. In the Administration main windows, 3 new objects are created: a Print Server, a Print Queue and a Printer:



~ Launch the Océ embedded print server

- 1 Reboot the Océ TDS/TCS Printer Controller.
- 2 Check if the setup (Océ TDS/TCS controller and Novell File Server) is correct

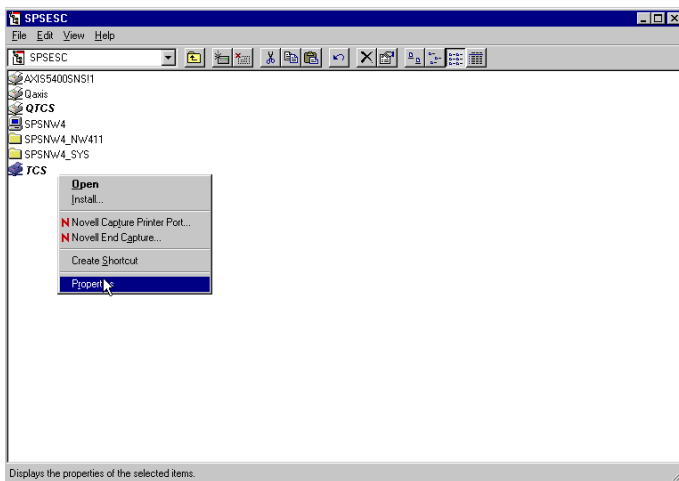
- 3 Double-click 'Print Server' Object. A Print Server window is opened where you may see:
 - a Network Address which MUST exist (IPX:...)
 - Status 'Running'



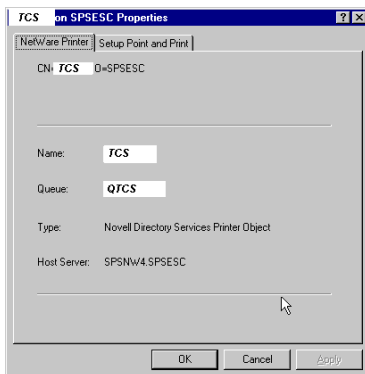
Note: *The Status may sometimes not be Running but Down instead. This does not necessarily mean the Print Server is not working. This Novell status is not reliable and cannot be used to check whether Print Server is correctly running.*

- 4 You can check if the Print Server embedded in Océ TDS/TCS is correctly connected to the Novell Server by checking the Novell Server itself. There is an active connection on print server which must appear in *NetWare 4 Console Monitor / Connection* with the status: NORMAL.

- 5 To check if Océ TDS/TCS Printer Resource is available for users, browse the Network and select the proper Context and Tree (SPSESC/SPSESC). The new shared Printer TDS is displayed:



- 6 Right-click on the printer and select 'Properties' to check if the printer configuration is OK:



Novell 5.x File Server Setup

Note: *It is recommended to use the NDS mode when using Novell 5.x.*

Three printing objects must be created on the Novell Server:

- A Print Server object (the name must be identical to the *Pserver name* parameter setup in the Océ TDS/TCS controller by means of the Settings Editor, refer to the Controller setup section)
- A Queue object
- A Printer object

These 3 objects must be linked together and you have to check the Océ TDS/TCS Print Server is connected to the Novell Server.

Note the following parameters used in our example, some of them must be set up on the Océ TDS/TCS controller:

- Novell Context: *SNSESC* (to be set on the controller)
- Novell Tree: *SNSESC*
- Novell File server: *SNSNW5* (to be setup on the controller)

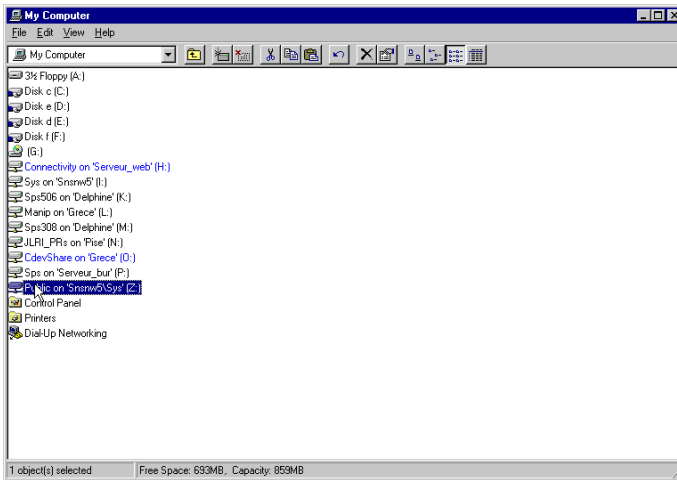
- Océ TDS/TCS Print Server Name: *PSTDS* (to be set on the controller and on the Novell File Server)
- Océ TDS/TCS Printer Name: *TDS* (to be set on the Novell File Server)
- Océ TDS/TCS Printer Queue Name: *QTDS* (to be set on the Novell File Server)

~

Launch the Administration Task

- 1 Logon as System Administrator on your client workstation, using the proper Context, Tree and Server.

- 2 Open 'My Computer', locate and expand the \Public Directory:



- 3 Open the 'Win32' Sub-Directory and double-click on Nwadm32.exe to launch the Administration Task.

~

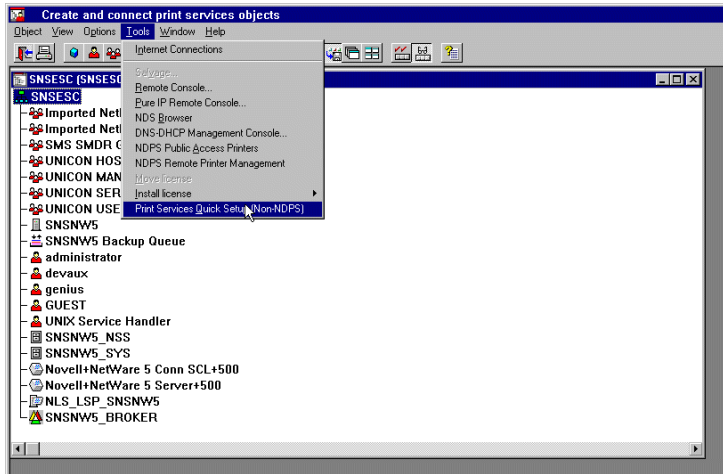
Setup the print resource on the Novell File server

- 1 Browse and open the proper Context (for instance, 'SNSESC').

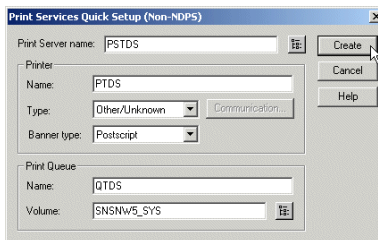
Caution: *This context must correspond to the NDS context entered on the Océ TDS/TCS controller by means of the Settings Editor.*

- 2 Select the proper Tree (for instance, 'SNSESC').

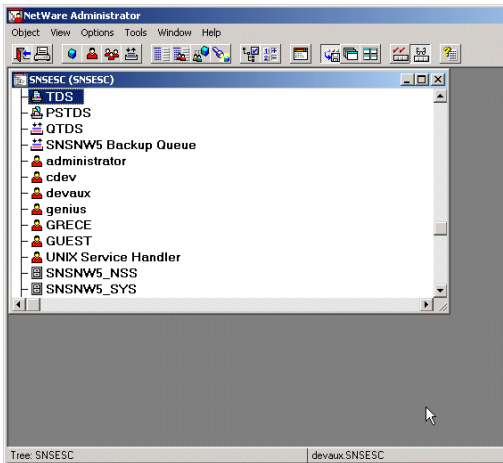
- 3 From the 'Tools' menu, select 'Print Service Quick Setup (Non-NDPS)'.



- 4 The 'Print Service Quick Setup (Non-NDPS)' window is displayed. Fill in the following fields:
- 'Print Server Name'
 - 'Printer Name'
 - 'Printer Type' (select 'Other/Unknown'- used for Network)
 - 'Printer Banner Type' (select 'PostScript')
 - 'Print Queue Name'



- 5 Click 'Create'. In the Administration main window, 3 new objects are created:
 - a Print Server
 - a Print Queue
 - a Printer

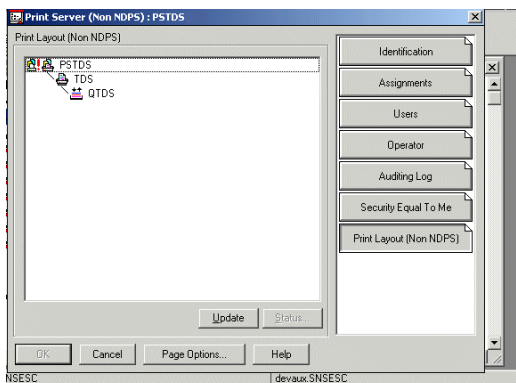


~ **Launch the Océ embedded print server**

Reboot the Océ TDS/TCS Printer Controller.

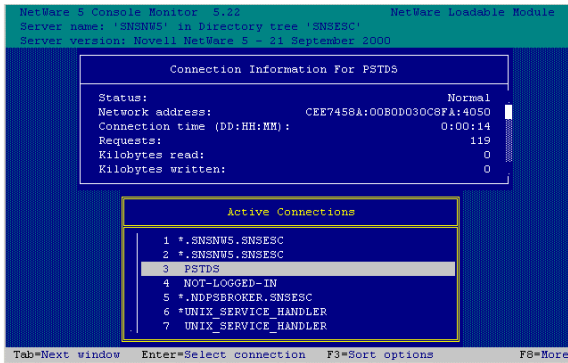
~ **Check the setup is correct.**

- 1 Double-click on the 'Print Server' Object to check the 3 objects (Print Server, Print Queue and Printer).
- 2 Click the 'Print Layout (Non NDPS)' tab:

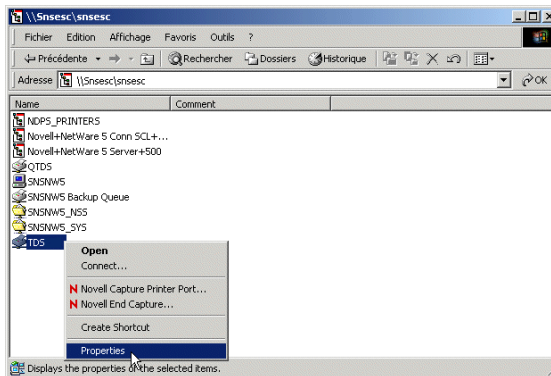


Note: *On this illustration, the exclamation mark does not necessarily mean the Print Server is not working. This Novell status is not reliable and cannot be used to check whether Print Server is correctly running.*

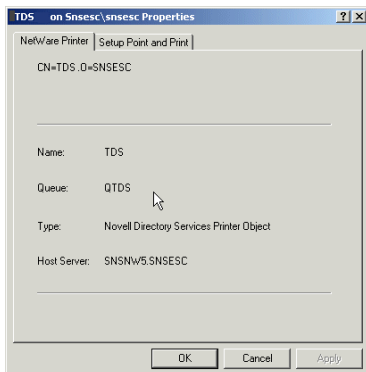
- 3 Check if the Print Server embedded in Océ TDS/TCS is correctly connected to the Novell Server by checking on the Novell Server itself. There is an active connection on print server which must appear in *NetWare 5 Console Monitor / Connection* with the status: **NORMAL**:



- 4 To check if the Océ TDS/TCS Printer Resource is available for the Users, browse the network using 'Network Neighborhood' and selecting the proper Context and Tree (SNSESC/SNSESC). The new shared Printer TDS/TCS is displayed:



- 5 Right-click on the printer and select 'Properties' to check if the printer configuration is OK:



Novell 6.x File Server Setup

The Novell 6.x File Server Setup is similar to Novell 5.x File Server setup (see 'Novell 5.x File Server Setup' on page 143).

Note: *Although there are new administration tools under Novell 6.x, we highly recommend to use the NetWare administration tool as described in section 'Novell 5.x File Server Setup' on page 143 (i.e. nwadmn32.exe). This tool offers a 'Print Service Quick Setup (Non NDPS)' to quickly configure this environment type.*

The Novell client must be installed on Client workstation where nwadmn32.exe will be launched.

Client Workstation Setup

This section is aimed at the local network administrator and/or end user. It describes how to setup the client workstations, by using a Client/Server connection, in order to use the Océ TDS/TCS Printer resource on a LAN via the IPX/SPX protocol.

Attention: *Workstations that run under Windows Vista operating system do not support the Novell Queue Based Printing anymore.*

Instead, you can use iPrint Novell (see ‘iPrint Setup (Novell 6.x, Novell 5.1 with Support Pack 2)’ on page 193).

Note: *The Peer-to-peer connection is not possible when using the IPX/SPX protocol.*

Note: *The Client/Server connection allows a client workstation to use the Océ TDS/TCS printer, defined on the Novell File Server.*

Client Workstation Setup (WPD driver)

This section is a System Administrator guideline to use the Océ TDS/TCS Print Services on a Windows Client workstation with the Windows Printer Driver (WPD), interconnected via the Novell IPX/SPX protocol.

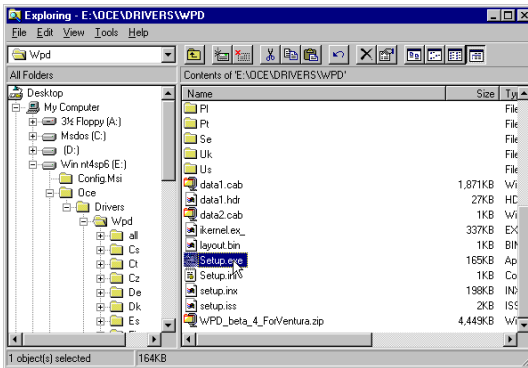
The client workstations have access to the Océ TDS/TCS Print Services via Printer Queues defined on this dedicated Novell File Server.

There are two methods to install Windows Printer Driver (WPD):

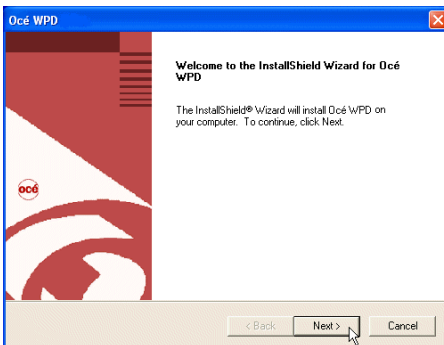
- Setup.exe: recommended method due to the complete automatic ‘uninstall’ procedure.
- Add Printer method: the full ‘uninstall’ procedure may have manual actions (refer to Océ Windows Printer Driver User Manual for further details on uninstallation). However this method can be chosen in case of troubles with Novell Client capture problem (see page 152).

Install WPD using the setup.exe method

- 1 Open the Windows Explorer.
- 2 Browse to locate the directory where the Océ Windows Printer Driver (WPD) distribution is located:

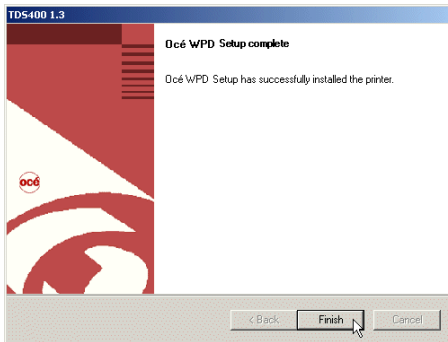


- 3 Double-click 'setup.exe'.
- 4 Choose the setup language. The 'Océ WPD installation' installer is launched:

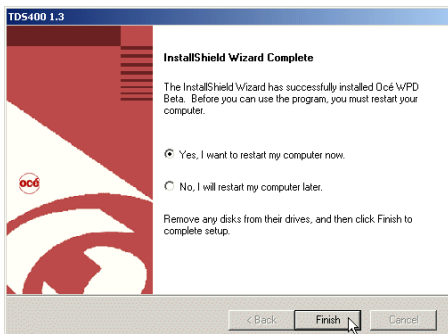


- 5 Click 'Next', it opens the 'License Agreement' window.
- 6 Click 'Yes' to accept the license. A read-me file is displayed.
- 7 Read the file before closing it.
- 8 Select the driver language and click 'Next'.
- 9 Choose the Printer Model and the port. For the port, select an unused port.
Note: In the next procedure, the port will be redirected to the appropriate Novell queue.
- 10 Enter the name for your printer and click 'Next'.
- 11 In the Sharing window, make sure the 'No' is selected.
- 12 Click 'Next'.

- 13 Files are copied on the hard disk. Two different windows may appear:
- If the following window is displayed, no reboot is required (e.g.: when you install the driver for one printer for the first time), you can finish the setup:



- If the window below is displayed, a reboot is required (for example: you already installed the driver for one printer, and you install a new printer model). You can finish the setup but reboot is necessary before using the driver.



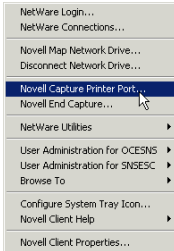
Redirect the local port to the appropriate Novell Queue.

Note: *It is preferable to use the Novell capture procedure rather than the 'net use' command:*

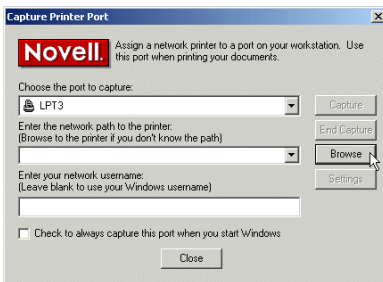
- 1 Right-click on the 'N' red logo on the right Task bar to launch the Novell capture tool:



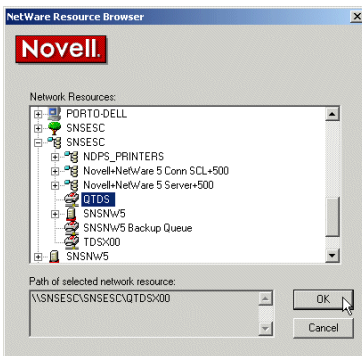
- 2 Select the Novell capture menu



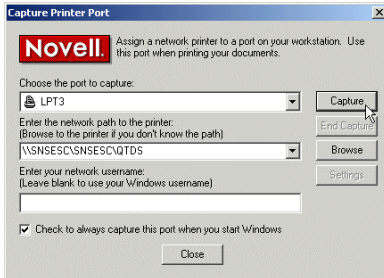
- 3 Enter the port to capture (LPT3 in this example):



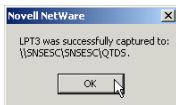
- 4 Browse the Novell Queue:



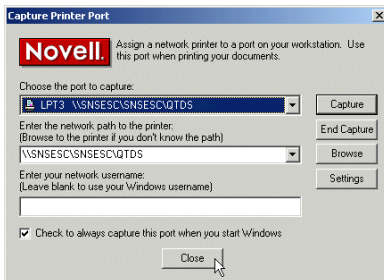
- 5 Do not forget to enable the option ‘Check to always capture this port when you start Windows’ and validate the capture by clicking ‘capture’:



The following window acknowledges the successful capture operation:



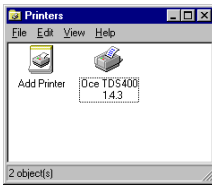
- 6 Click ‘OK’ to finish the capture.
- 7 Close the capture window



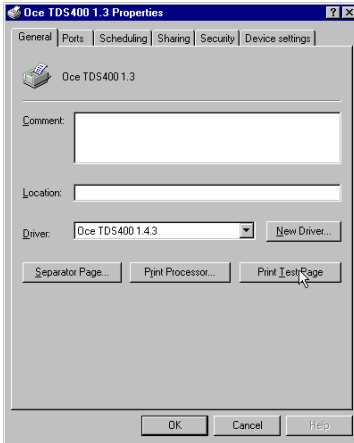
~

Check if the setup is correct

- 1 From the Windows 'Start' menu, select 'Settings - Printers'



- 2 Right-click on the printer installed, select Properties, and print a Test page:



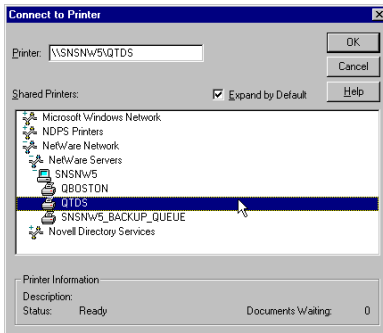
Caution: You may wait until the polling delay before test page is printed (TDS/TCS Settings Editor /Connectivity/Novell/Queue Poll Interval).

Install WPD using the Add printer method

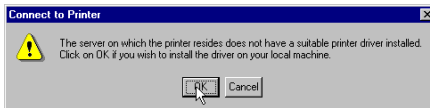
- 1 From the Windows 'Start' menu, select 'Settings' and 'Printers':



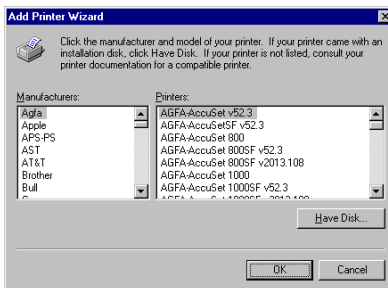
- 2 Double-click 'Add printer'.
- 3 In the 'Add Printer Wizard' click 'Network printer server' then 'Next'.
- 4 Browse the network to locate the server to which the TDS/TCS is connected:
 - the correct network (NetWare Network / NetWare Servers)
 - the appropriate file server
 - the appropriate printer queue



- 5 Click 'OK'. A warning message is displayed:

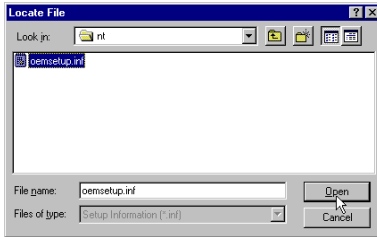


- 6 Click 'OK'. The 'Add Printer Wizard' window is displayed, including a list of manufacturers and printers:



- 7 Click 'Have Disk':

- 8 Click 'Browse' to locate the directory where the Océ Windows Printer Driver distribution is:

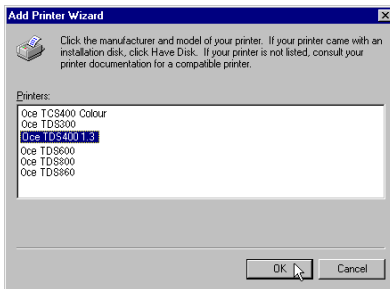


- 9 Select the 'oemsetup.inf' file.

- 10 Click 'Open'.

The 'Install from disk' window is again displayed, with the selected path appearing on the 'copy Manufacturer's files from...' line.

- 11 Click 'OK':



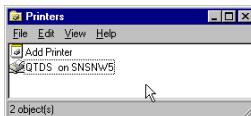
- 12 Select the appropriate printer.

- 13 Click 'OK'.

Files are copied to the PC's hard disk drive.

- 14 Click 'Finish'.

- 15 Check the new printer appears in the available printers list:



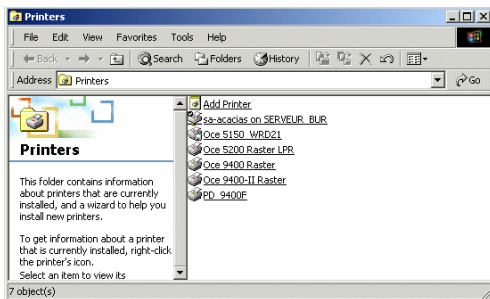
Client Workstation Setup (PS3 driver)

~

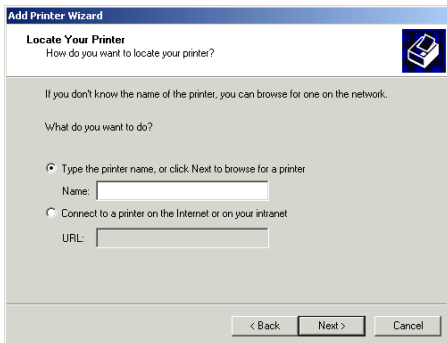
Setup Windows 2000 workstation

Note: *The following procedure uses an Océ TDS printer as an example.*

- 1 From the Windows 'Start' menu, select 'Settings - Printers'.
The 'Printers' window is displayed:

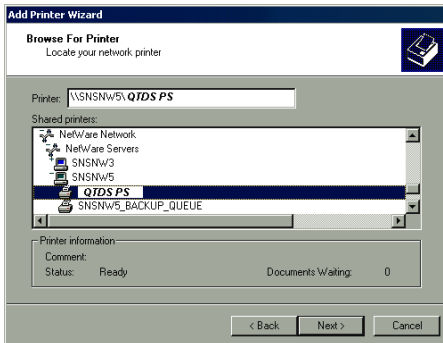


- 2 Double-Click 'Add printer' icon, it opens the Add Printer Wizard.
- 3 Click 'Next'.
- 4 Choose 'Network printer' and click 'Next'.



5 Click 'Next'.

The 'Browse for printer' window is displayed:

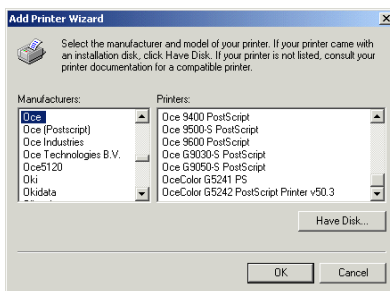


6 Browse the network to locate the server to which the TDS PS is connected:

- the correct network (NetWare Network / NetWare Servers)
- the appropriate file server
- the appropriate printer queue

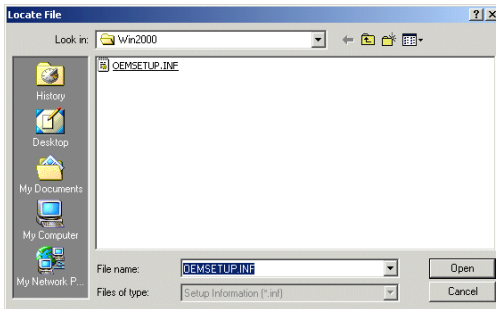
7 Click 'Next'.

The 'Add Printer Wizard' window is displayed, including a list of manufacturers and printers:



8 Click 'Have disk'.

- 9 Click 'Browse'.



- 10 Browse to locate the directory where the Océ Postscript 3 driver distribution is located.
- 11 Select the 'oemsetup.inf' file.
- 12 Click 'Open'.

The 'Install from disk' window is again displayed, with the selected path appearing on the 'copy files from...' line:



- 13 Click 'OK'.
- The 'Add Printer Wizard' window is displayed.
- 14 Select the Océ TDS printer.
- 15 Click 'OK'.

The 'Digital signature not found' window is displayed:



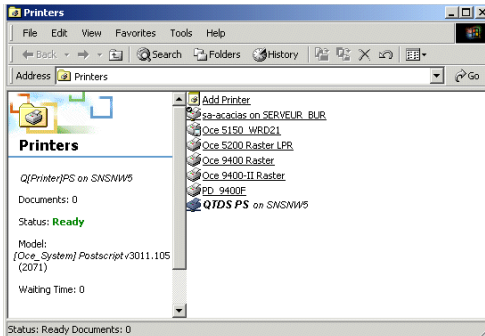
- 16 Click 'Yes'.

Files are copied to the PC's hard disk drive, then the 'Default printer' window is displayed.

- 17 Select if you want the TDS Printer to be the default printer or not and click 'Next'.

- 18 To close the wizard click 'Finish'.

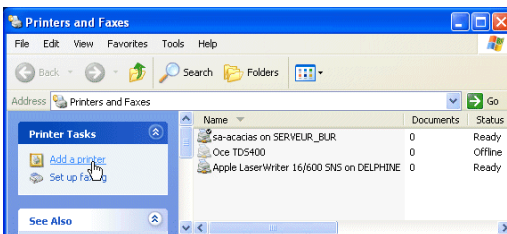
The 'Printers' window is displayed, with the newly-installed TDS printer in the available printers list:



~

Setup Windows XP/Server 2003 workstation

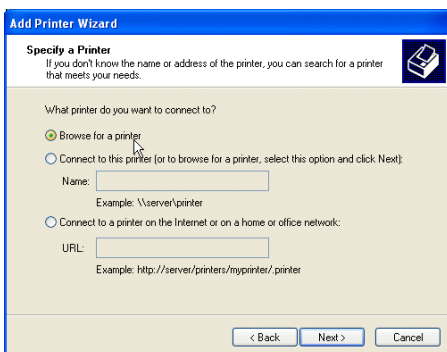
- 1 From the Windows 'Start' menu select 'Settings - Printers and faxes':



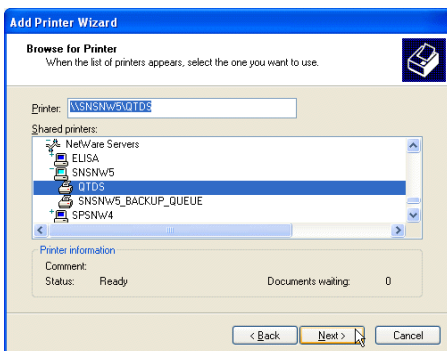
- 2 Click 'Add printer', it opens the 'Add Printer Wizard'.
- 3 Click 'Next'.

- On the 'Local or Network' printer' window, select 'Network printer' and click 'Next'.

The 'Specify a Printer' window displays:



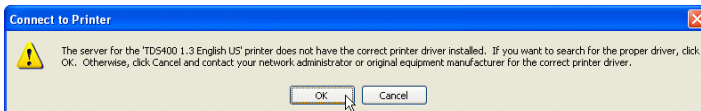
- Click 'Browse for a printer' and 'Next':



- Browse the network to locate the server to which the TDS/TCS is connected:
 - the correct network (NetWare Network / NetWare Servers)
 - the appropriate file server
 - the appropriate printer queue

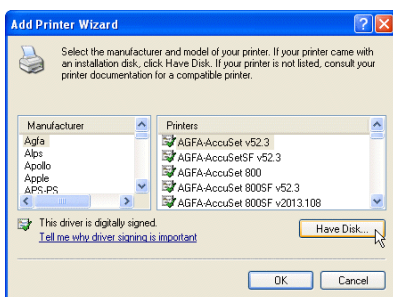
- Click 'Next'.

A warning message invites you to install the driver:



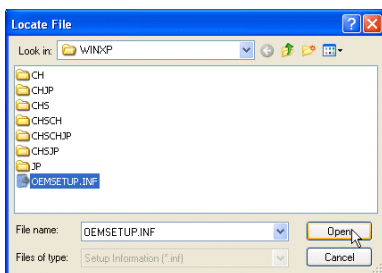
- 8 Click 'OK'.

The 'Add Printer Wizard' window is displayed, including a list of manufacturers and printers:



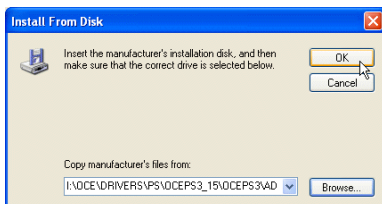
- 9 Click 'Have Disk'.

- 10 Click 'Browse'.

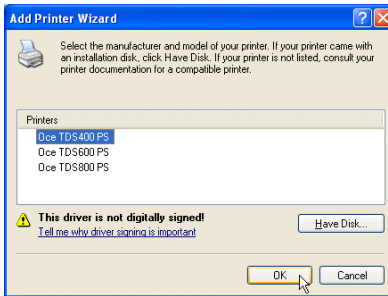


- 11 Browse to locate the directory where the Océ Windows XP Postscript 3 driver distribution is located.
- 12 Select the 'oemsetup.inf' file.
- 13 Click 'Open'.

The 'Install from disk' window is displayed, with the selected path appearing on the 'copy manufacturer's files from...' line:



- 14 Click 'OK'.



- 15 Select the Océ TDS/TCS printer.

- 16 Click 'OK'.

The 'Hardware installation' window is displayed warning you are installing a driver which has not passed 'Windows Logo testing':



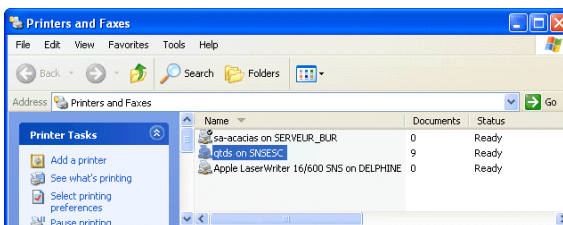
- 17 Click 'Continue anyway'.

Files are copied to the PC's hard disk drive.

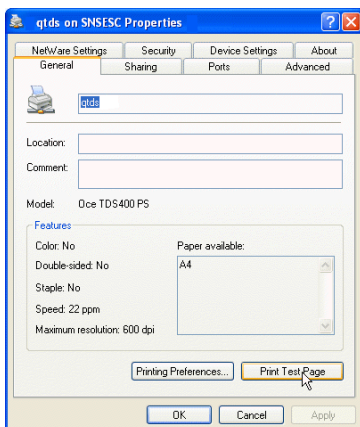
- 18 Select if you want your printer to be the default printer or not and click 'Next'.

- 19 Click 'Finish'.

The 'Printers' window is displayed, with the newly-installed printer appearing in the available printers list:



- 20 Right-click on the printer installed, select 'Properties' and print a Test page:



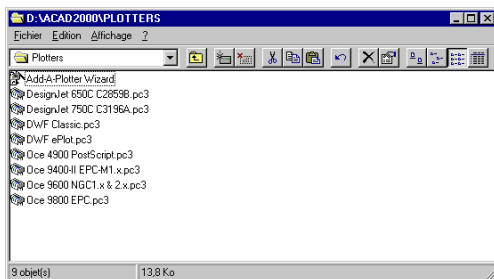
Client Workstation Setup (AutoCAD HDI)

Note: *AutoCAD 2000 or AutoCAD 2000i must be installed on the client station.*

Note: *The driver supports the following AutoCAD versions: AutoCAD 2000, 2000i, 2002, and 2004 to 2008.*

Install the AutoCAD HDI driver

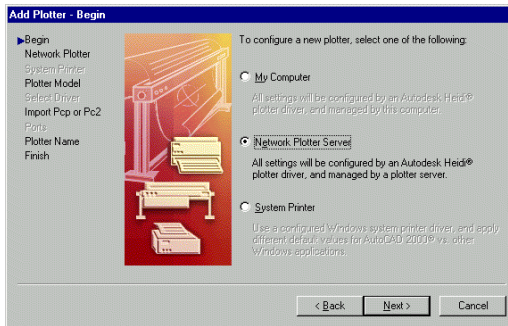
- 1 In the AutoCAD menu, select 'File - Plotter Manager'.



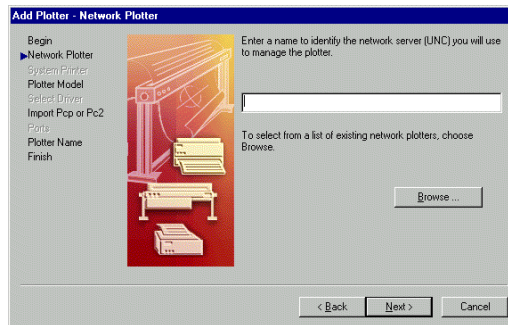
- 2 Double-click the 'Add-a-plotter wizard' icon.

3 Click 'Next'.

The 'Add Plotter - Begin' window is displayed:

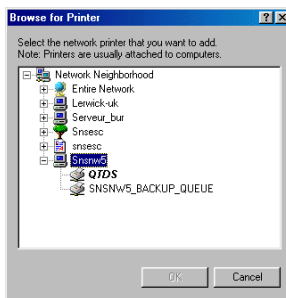


4 Select 'Network plotter server' and click 'Next':



5 Click 'Browse'.

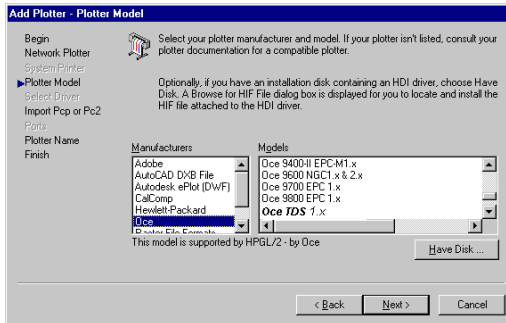
- 6 Locate the TDS/TCS on the network by selecting:
- the network (NetWare network / NetWare servers)
 - the file server
 - the printer queue



7 Click 'OK'.

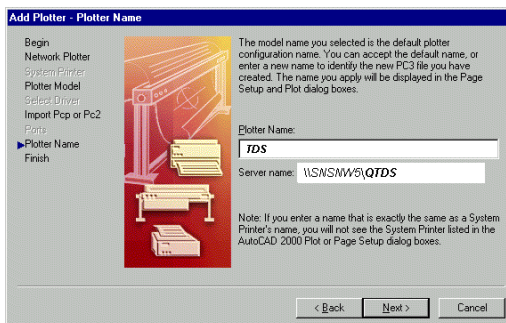
The selected printer name is displayed in the 'Add plotter - Network plotter' window.

8 Click 'Next':

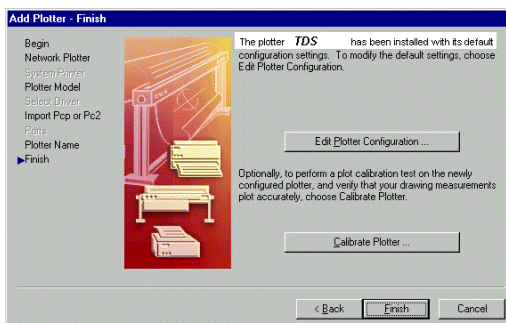


9 Select 'Oce' in the 'Manufacturers' list and 'OceTDS/TCS' in the 'Models' list.

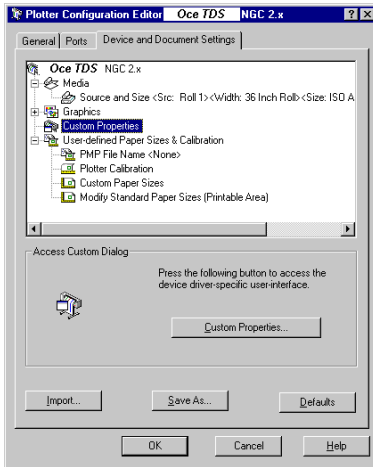
10 Click 'Next' twice:



11 Enter a new printer name, if required, and click 'Next'.



12 Click 'Edit plotter configuration'.



13 Click 'Custom properties'.

The 'Custom properties' button will appear in the 'Access custom dialogue' part of the window.

14 Click 'Custom Properties'.

15 Setup the printer parameters.

16 Click 'OK'.

The 'Plotter configuration Editor' window is again displayed.

17 Click 'OK'.

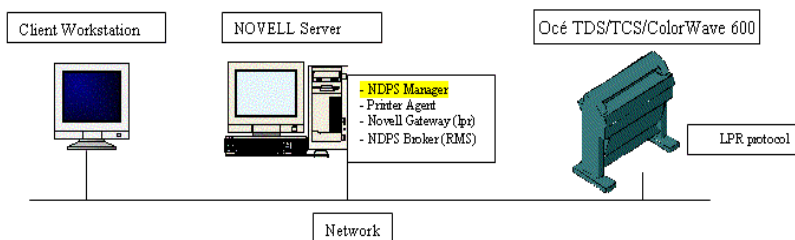
18 Click 'Finish'.

NDPS Setup

Novell® Distributed Print Services® (NDPS®)

Note: *The Novell® Distributed Print Services™ (NDPS™) is the default and preferred print system in NetWare® 5™ and available in NetWare® 6™.*

A Printer Agent (representing all the printer characteristics) is defined on Novell Server. A client sends jobs to the printer on the Novell Server. The Novell Server sends the job(s) to the Océ TDS/TCS/ColorWave 600 through a Novell Gateway by using **LPR** protocol. NDPS Manager manages the Printer Agent. The NDPS Broker Resource Management Service (RMS) component allows resources (printer drivers, printer definition files, banners, and fonts) to be installed in a central location and then downloaded to clients, printers, or any other entity on the network that needs them.



[9] Overview of NDPS

Configuration You need to configure the Client Workstation, the Océ TDS/TCS/ColorWave 600 controller and the Novell Server.

Note: *The Peer-to-Peer connection does not exist on NDPS.*

Setup

- 1 Setup the Océ TDS/TCS/ColorWave 600 controller.
- 2 Setup the Novell Server.
- 3 Setup the Client Workstation (driver installation).

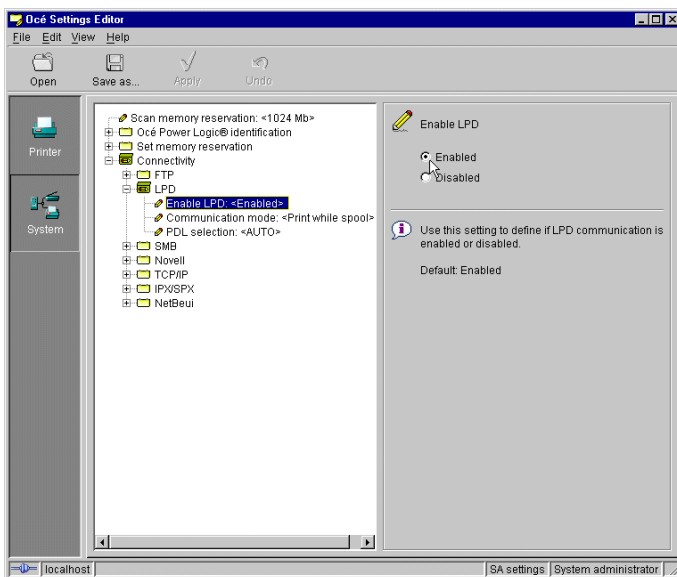
Controller Setup

In NDPS environment, the Novell Server sends jobs to the Océ TDS/TCS or ColorWave 600 controller by means of the LPR protocol, so this protocol must be enabled on Controller.

~ **Enable the LPR protocol for all Océ TDS/TCS systems (except Océ TCS300)**

Note: *You MUST be logged on as a System Administrator.*

- 1 Switch the Océ Settings Editor in SA Mode (see page 257).
- 2 Expand the 'Connectivity' Folder.
- 3 Expand the 'LPD' folder.
- 4 Select 'Enable LPD' document.
- 5 Select 'Enabled' on the right window ('Enable LPD'):



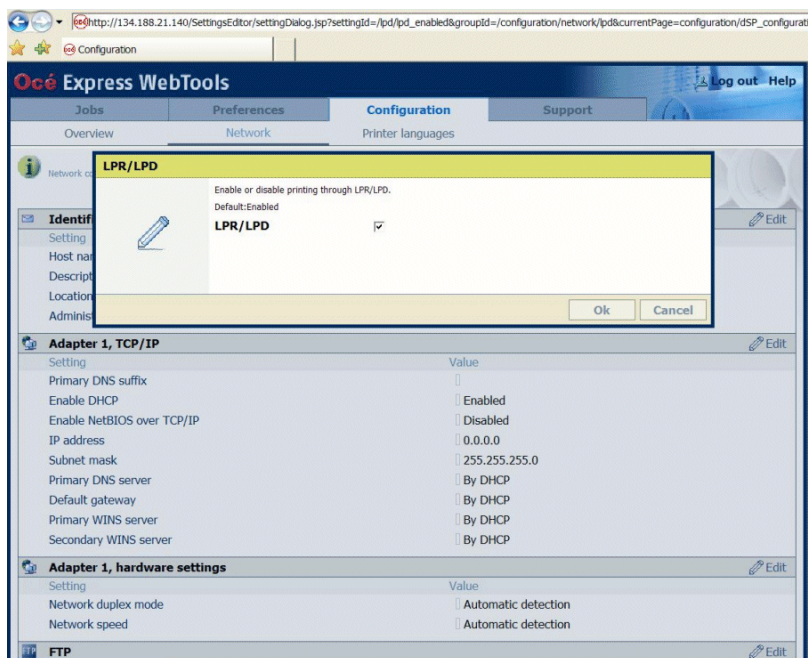
- 6 Click 'Apply'.
- 7 Reboot the controller (see 'Reboot the controller' on page 259).

Enable the LPR/LPD protocol for Océ TCS300 and Océ ColorWave 600 systems

Note: The LPR protocol is enabled by default for the TCS300 and Océ ColorWave 600

Note: You must be logged as a System Administrator to change this setting

- 1 From a client workstation, open a web browser and access the Océ Express WebTools (http://<TCS300_HOSTNAME> or http://<Océ_ColorWave_600_HOSTNAME> - see 'Configure the TCP/IP settings (Océ TCS300 and Océ ColorWave 600 systems)' on page 34).
- 2 In the 'Configuration' tab, select 'Network'.
- 3 In the 'LPD' section, click on 'Edit'.
The 'LPD' window pops up.
- 4 Check the 'LPR/LPD' setting box to enable the LPR protocol.
- 5 Click on the 'OK' button to validate the new setting and close the window.



Novell Server Setup

This section is aimed at the Local Network Administrator and describes how to setup the Novell Server to prepare NDPS environment printing:

- 1 Create a NDPS Manager.
- 2 Create a Printer Agent.
- 3 Configure the NDPS broker Resource Management Service (RMS).

First, you have to check whether the NDPS component is installed on the Novell Server; otherwise, install it (refer to your Novell NetWare installation manual).

Create a NDPS Manager

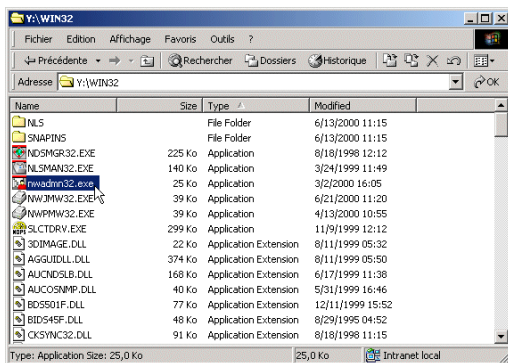
The NDPS Manager is used to create and manage server-based Printer Agents (similar to the way PSERVER is used on servers to manage printing resources in legacy printing). You must create an NDPS Manager on each Novell Server you will be controlling NDPS printers from.

Note: *You MUST be logged on as Novell System Administrator on any Windows WorkStation running Novell Client 32 over any MicroSoft Windows operating System.*

~

Launch the Administrator task

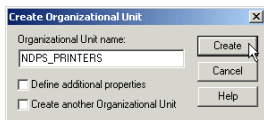
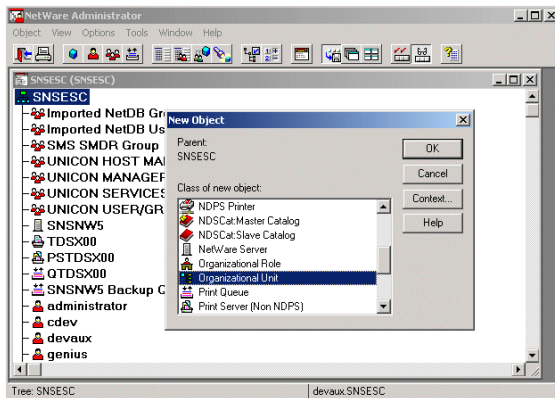
- 1 Logon as System Administrator, using the proper Context, Tree and Server.
- 2 Launch the Novell Administration Task (Nwadm32.exe) located in.
\\‘Novell_Server’\SYS\public\WIN32 (also generally mapped on Z:\Win32.)



In the following steps, objects are created using ‘Novell Administration’ console. You just need to select the existing object where you want to add a new one, then create a new object by either:

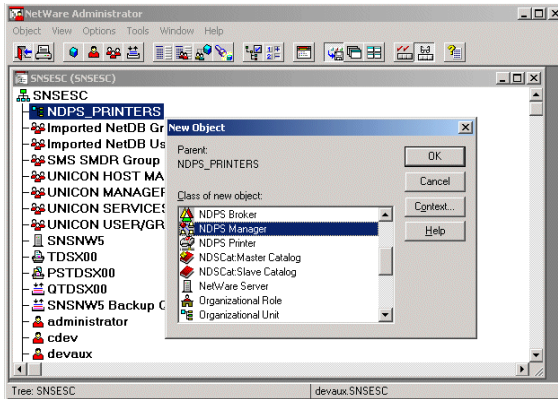
- NetWare Administrator/Object/Create action
- Right click on the container where the new object is added
- or press the ‘INS’ key

In our example, we create a Container (an Organisation Unit = NDPS_PRINTERS) where we create all the objects for NDPS printers.

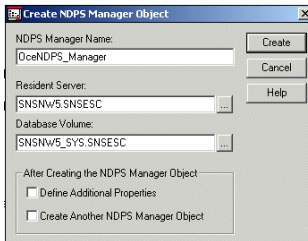


Create a NDPS Manager

- 1 Select NDPS_PRINTERS and create a new object:



- 2 Give the name, Server to run on, and volume location:



Attention: To autoload the NDPS Manager when you restart the Novell Server, add the following line to your server's autoexec.ncf file (otherwise, the NDPS manager will not be loaded after rebooting the Novell Server):
load ndpsm 'NDPS Manager name and context'

For instance, in this example, the following line must be added:

```
load ndpsm .OceNDPS_Manager.NDPS_PRINTERS.SNSESC
```

NDPS Printer Agent

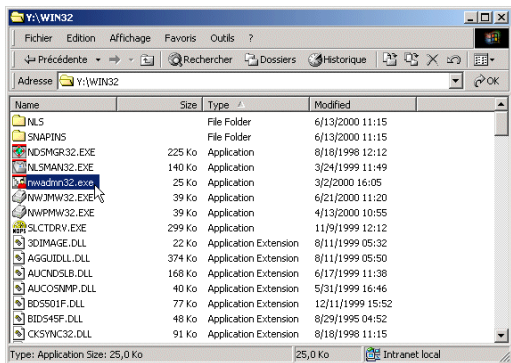
NDPS printers must be represented by a logical entity known as a Printer Agent. No Printer Agent can represent more than one printer, and no printer can be represented by more than one Printer Agent.

The Printer Agent lies at the heart of NDPS, combining the functions previously performed by a printer, print queue, print server, and spooler into one intelligent and simplified entity.

Note: *You MUST be logged on as Novell System Administrator on any Windows WorkStation running Novell Client 32 over any MS Windows operating System.*

Launch the Administrator task

- 1 Logon as System Administrator, using the proper Context, Tree and Server
- 2 Launch the Novell Administration Task (Nwadm32.exe) located in.
\\‘Novell_Server’\SYS\public\WIN32 (also generally mapped on Z:\Win32.)



In the following steps, objects are created using Novell Administration console, you just have to select the existing object where you want to add a new object, then create a new object by either:

- NetWare Administrator/Object/Create action
 - Right click on the container where the new object is added
 - or press the 'INS' key
- 3 Before creating the Printer Agent, check whether there is an object NDPS broker already running. If not, you may have trouble to create a Printer Agent.

To check whether an NDPS broker object is active, search for a 3 interlaced triangles object with NetWare Administrator console:



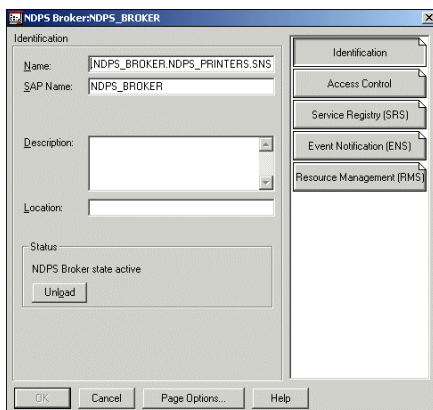
If not present, NO NDPS broker is installed, go to 'NDPS Broker setup' on page 179.

If present, double-click on it, and check the status in the identification section:

- If Status is 'NDPS broker state down', go to 'NDPS Broker setup' on page 179.

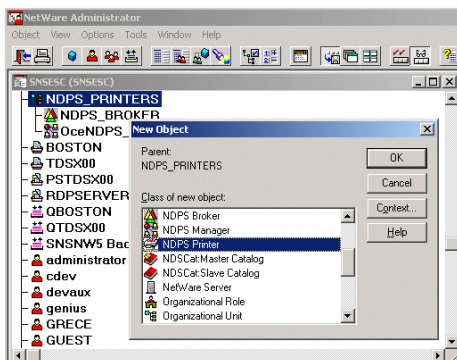
- If Status is 'NDPS broker state active' go to next step.

For example, NDPS broker state active:

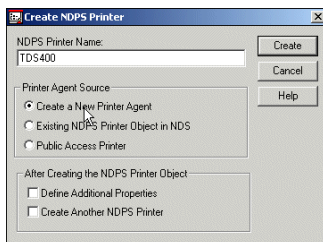


Create the Printer Agent

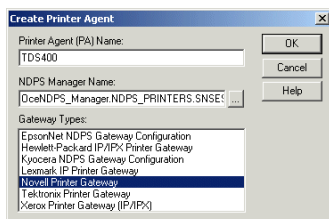
- 1 Select NDPS_PRINTERS.
- 2 Create an NDPS printer object:



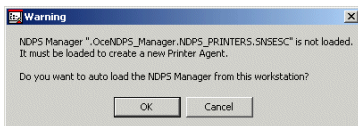
- 3 Enter the printer name:



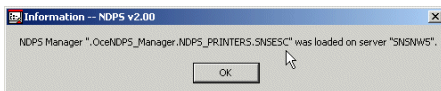
- 4 Press 'Create' then:
 - Enter the Printer Agent name
 - Enter the NDPS Manager (you previously created)
 - Enter the 'Novell printer gateway'



- 5 The following window may appear if NDPS manager was not already loaded. Confirm by pressing OK:

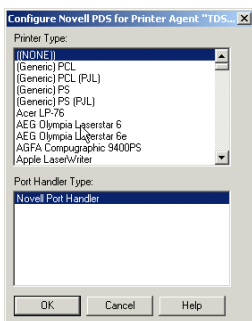


You should see the successful following window:

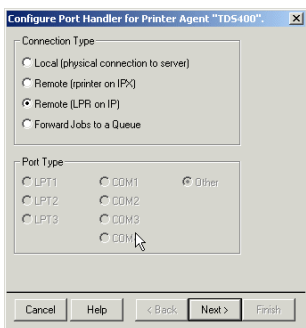


Note: *This window does not appear if NDPS manager was already loaded.*

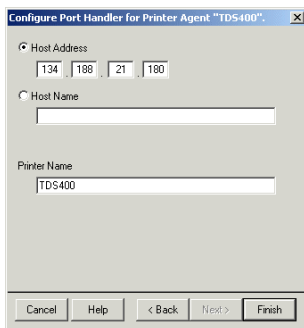
- 6 Select Printer type: NONE.



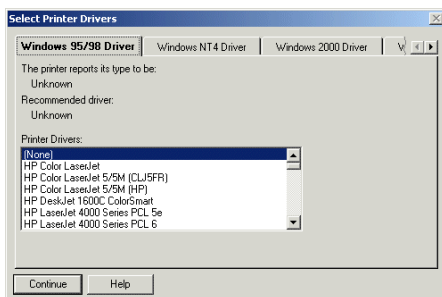
- 7 Select Connection type to 'Remote (LPR on IP)':



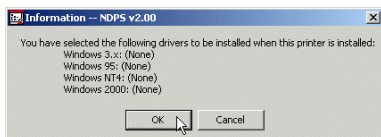
- 8 Enter the IP address (preferred than hostname which requires DNS resolution on Novell Server) and the Printer name:



- 9 Click 'Finish' to trigger the Printer Agent creation and starting.



- 10 Select 'None' on every Operating System tab, and click 'Continue':



- 11 Click 'OK' to finish.

NDPS Broker setup

The Broker provides three network support services not previously available in NetWare®:

- Service Registry Service (SRS),
- Event Notification Service (ENS),
- Resource Management Service (RMS): RMS is the one we use below.

The RMS service allows resources (printer drivers, ...) to be installed in a central location and then downloaded to clients, printers, or any other entity on the network that needs that resource.

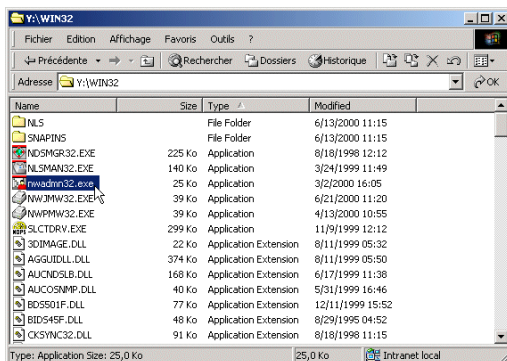
When NDPS is first installed in an NDS tree, a Broker object is created automatically in the container where the Server object resides. A broker should then exist and run on your Novell Server. If not, refer to ‘Create a NDPS broker object’ on page 181.

Note: *You MUST be logged on as Novell System Administrator on any Windows WorkStation running Novell Client 32 over any Windows operating System.*

~

Launch the Administrator task

- 1 Logon as System Administrator, using the proper Context, Tree and Server.
- 2 Launch the Novell Administration Task (Nwadm32.exe) located in \\‘Novell_Server’\SYS\public\WIN32 (also generally mapped on Z:\Win32.)

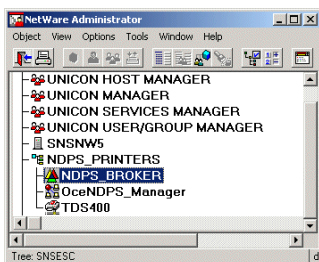


In the following steps, objects are created using Novell Administration console. You just have to select the existing object where you want to add a new object, then create a new object by either:

- NetWare Administrator/Object/Create action
- Right click on the container where the new object is added
- or press the 'INS' key.

- 3 Check whether there is an object NDPS broker already running, if not the case follow the below instructions; otherwise, go to next procedure.

To check whether an NDPS broker object exists, search for a 3 interlaced triangles object with NetWare Administrator console:



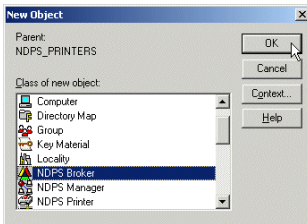
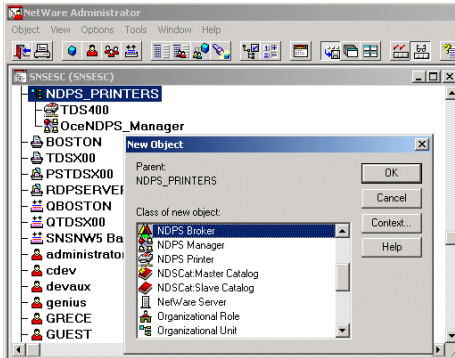
If not present, NO NDPS broker is installed, go to section 'NDPS Broker setup' on page 179.

If present, double click on it, and check the status in the identification section:

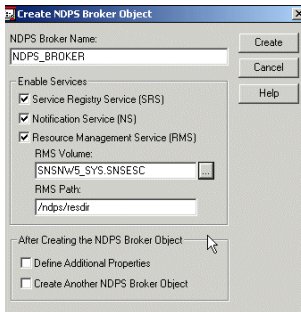
- If Status is 'NDPS broker state down', go to 'NDPS Broker setup' on page 179
- If Status is 'NDPS broker state active' go to 'NDPS Broker RMS setup' on page 183.

Create a NDPS broker object

- 1 Select NDPS_PRINTERS and create a new object.
- 2 Create an NDPS broker object:



- 3 Specify Broker name and RMS volume

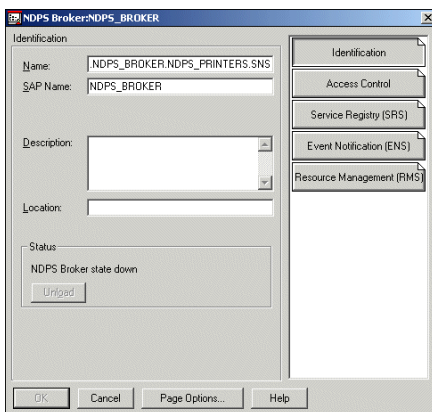


- 4 Click 'Create'.
- 5 Load NDPS broker.

- 6 Once the object is created, double click on it:



Check the status field:



- 7 To activate it, you have to load the broker module on Novell Server:

```
SNSNW5:load broker .NDPS_BROKER.NDPS_PRINTERS.SNSWSC
Loading module BROKER.NLM
NDPS Broker
Version 3.00      June 29, 2000
Copyright (c) 1989-1999 Novell, Inc. All rights reserved.
SNSNW5: _
```

- 8 Check that NDPS broker state is now active.

Attention: To autoload the NDPS Broker when you restart the Novell Server, add the following line to your server's autoexec.ncf file (otherwise, the NDPS broker will not be loaded):

load broker 'NDPS Broker name and context'

For instance, in this example, the following line must be added:

```
load broker .NDPS_BROKER.NDPS_PRINTERS.SNSWSC
```

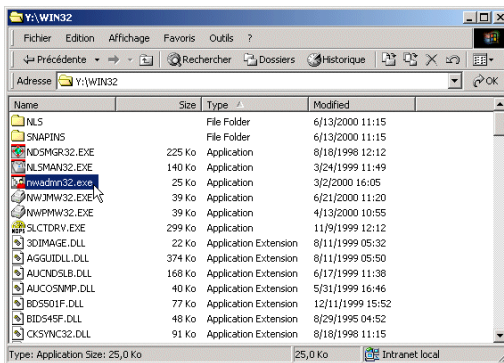
NDPS Broker RMS setup

This section describes how to setup the Novell Server NDPS Broker Resource Manager Service for automatic driver upload, taking the example of the Windows Printer Driver (WPD). The RMS service allows resources (printer drivers, ...) to be installed in a central location and then downloaded to clients, printers, or any other entity on the network that needs that resource.

Note: *You MUST be logged on as Novell System Administrator on any Windows WorkStation running Novell Client 32 over any MS Windows operating System.*

Launch the Administrator Task

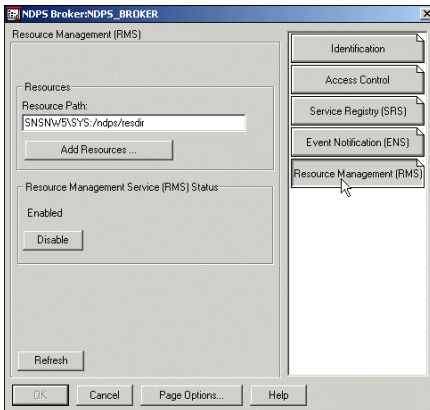
- 1 Logon as System Administrator, using the proper Context, Tree and Server
- 2 Launch the Novell Administration Task (Nwadm32.exe) located in.
\\‘Novell_Server’\SYS\public\WIN32(also generally mapped on Z:\Win32.)



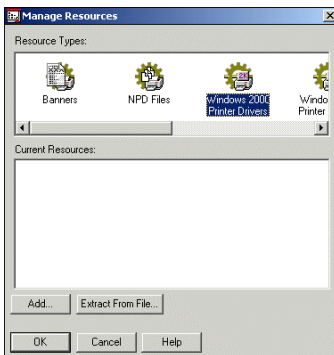
In the following steps, objects are created using Novell Administration console. You just have to select the existing objects where you want to add a new object, then create a new object by either:

- NetWare Administrator/Object/Create action
- Right click on the container where the new object is added
- or press the 'INS' key

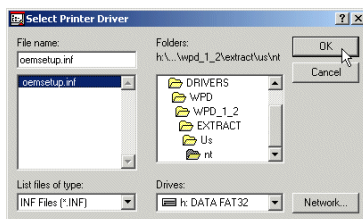
- 3 Double-click on the NDPS broker to open it, and press the ‘Resource Management (RMS)’ tab:



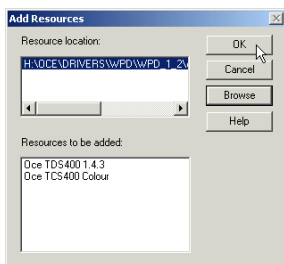
- 4 Click ‘Add resources’, and select the Operating System you want to add drivers resources for:



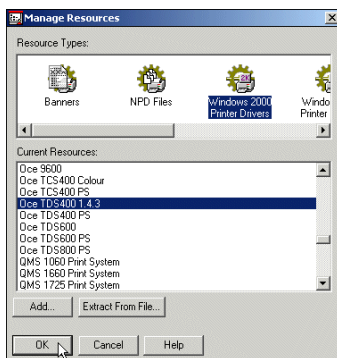
- 5 Select the Windows Platform and click ‘Add’, then browse to select the Printer driver, and click ‘OK’:



- 6 The following window appears, press ‘OK’ to install the resources:

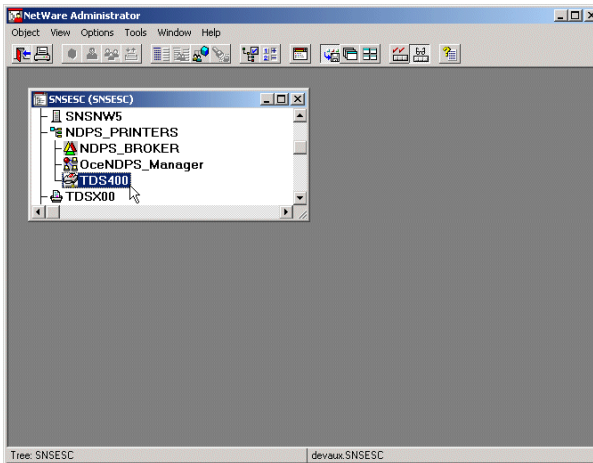


You can see the drivers installed on Novell Server:

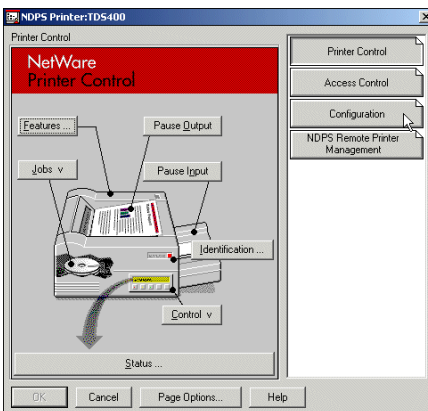


Note: *You can follow the same procedure for the PS3 driver.*

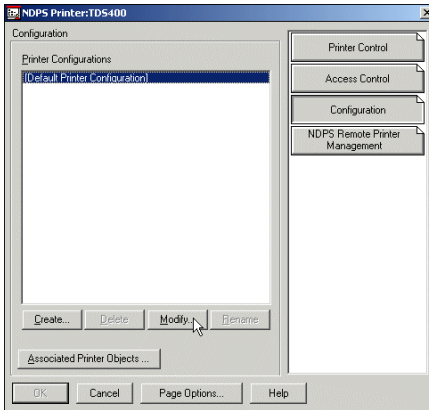
- ~
- Assign to the Printer Agent one resource (driver) among those available for automatic download when configuring the client**
- 1 Double click on the Printer Object.



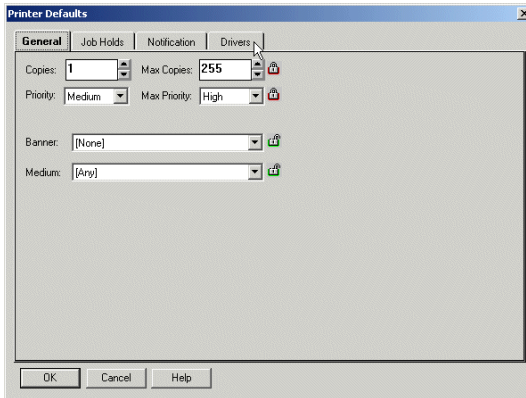
The following window is displayed:



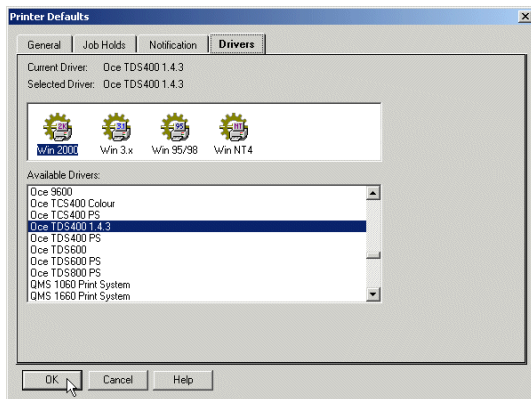
2 Click 'Configuration':



3 Select [Default Printer Configuration], and click 'Modify':



- 4 Click 'Drivers', select the Operating System (Windows 2000 in our example), then select the driver to set as the default one (TDS400 1.4.3 in our example):



- 5 Click 'OK'.
 - 6 Click 'OK' again in the mother window to finish. Printer Object has for Windows 2000 a default driver ready to be downloaded.
- Note:** *Whatever the supported drivers, you can repeat the operation for any Operating system supported.*

Client WorkStation Setup

This section is aimed at the Local Network Administrator and/or End User. It describes how to setup the Client workstation in order to use the Océ TDS/TCS and ColorWave 600 Printer resource available on the Novell Server through the NDPS method.

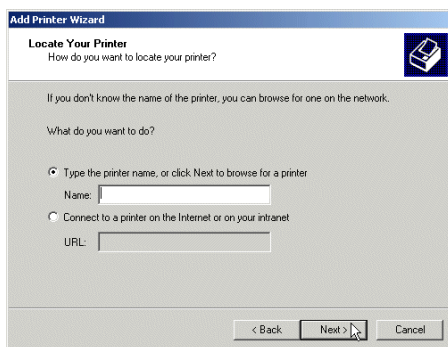
Attention: *On Client workstations that run under Windows Vista operating system, the NDPS queues are no more visible.*

Instead, you can use iPrint Novell (see ‘iPrint Setup (Novell 6.x, Novell 5.1 with Support Pack 2)’ on page 193).

Note: *The driver must be correctly downloaded on the Server Novell (see ‘NDPS Broker RMS setup’ on page 183). If not, you can nevertheless install the driver locally, but you lose interest in NDPS printing facilities.*

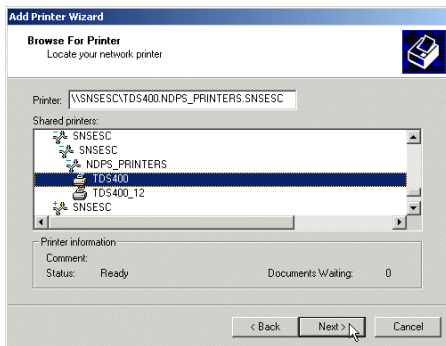
Set up the workstation under Windows 2000/XP/Server 2003 with WPD driver

- 1 From the Windows ‘Start’ menu, select ‘Settings/Printers’ and double-click ‘Add Printer’.
- 2 In the ‘Add Printer Wizard’ window, click ‘Next’ and choose ‘Network Printer’.
- 3 Click ‘Next’:

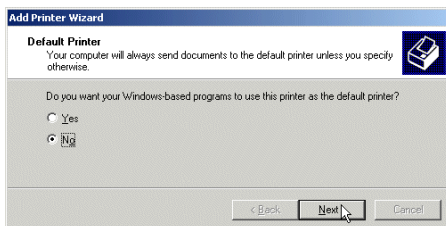


- 4 Click ‘Next’ to browse to search your NDPS PRINTER.

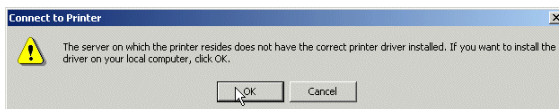
- 5 Click on it so that it appears in the ‘Printer’ field like in the following figure:



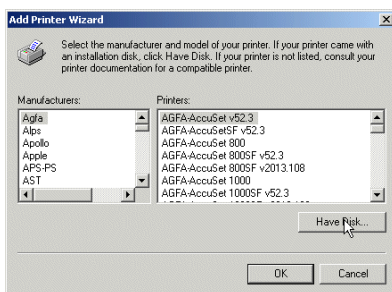
- 6 Click ‘Next’. At this stage, the driver resources are automatically downloaded from Novell Server to the local client workstation (Operating system is automatically recognized). Then the ‘Default Printer’ window is displayed:



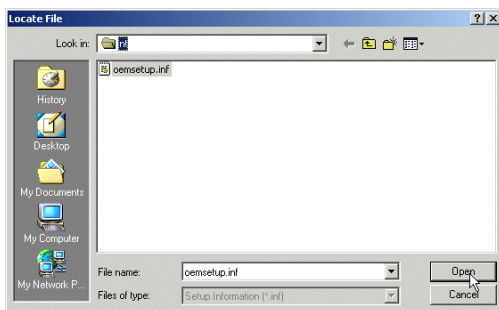
- 7 If the resource is not available on Novell Server, a window prompts you to install the driver:



- 8 To select the driver, click on ‘Have Disk’



- 9 Click 'Browse' to locate the directory where the Océ Printer Driver distribution is located and select the 'oemsetup.inf' file.

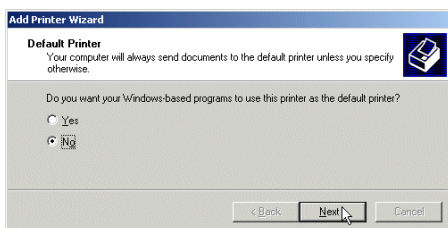


- 10 Click 'Open'.

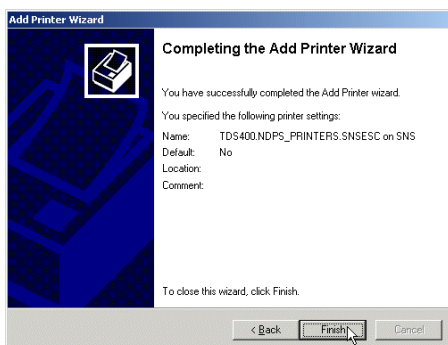
The 'Install from disk' window is again displayed, with the selected path appearing on the 'copy Manufacturer's files from...' line.

- 11 Click 'OK'.
- 12 Select the model of the printer.
- 13 Click 'OK'.

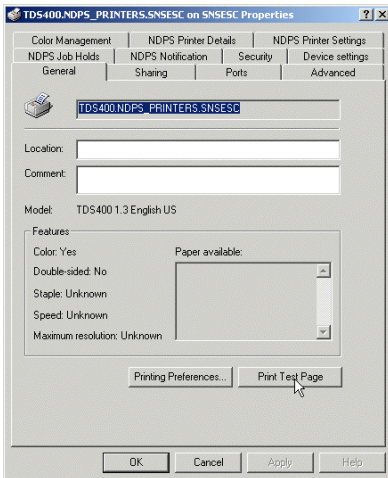
The driver resources are automatically downloaded from Novell Server to the local client workstation. Then the 'Default Printer' window is displayed:



- 14 The setup is complete. Click 'Finish':



- 15 From the Windows 'Start' menu, select 'Settings/Printers', right-click on the printer and select 'Properties':



- 16 Click 'Print test page'.

Note: *Depending of Novell NetWare version, Windows XP may be not supported by NDPS procedures; nevertheless, you can use the same procedure as for Windows 2000.*

Note: *The same procedure may be applied for the PS3 driver.*

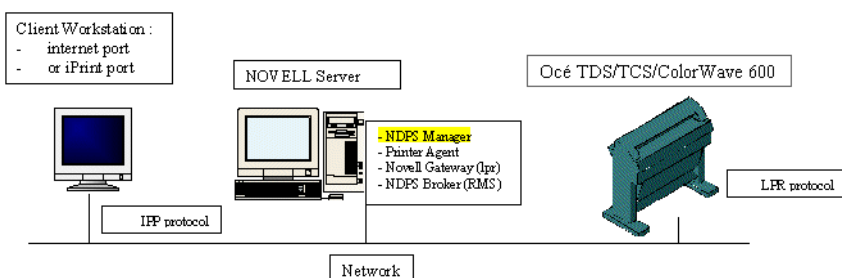
iPrint Setup (Novell 6.x, Novell 5.1 with Support Pack 2)

A Printer Agent (representing all the Printer characteristics) is defined on Novell Server.

A Client sends jobs to the Novell Server by means of Internet Printing Protocol (IPP). Then, the Novell Server sends the job(s) to the Océ wide format printer through a Novell Gateway by using **LPR** protocol.

NDPS Manager manages the Printer Agent.

The NDPS Broker Resource Management Service (RMS) component allows resources (printer drivers, printer definition files, banners, and fonts) to be installed in a central location and then downloaded to clients, printers, or any other entity on the network that needs them.



[10] iPrint overview

iPrint provides easy Web access to customer for selecting and installing required printer driver.

Novell took the IPP standard and their own NDPS (Novell Distributed Print Services) and combined the two to produce iPrint.

As iPrint is based on the Novell® Distributed Print ServicesTM (NDPS®) architecture, in order to use iPrint, you must have NDPS installed and configured on Novell Server (please refer to your Network Administrator).

iPrint is available on Novell 6.x and can be installed on Novell 5.1 with Support Pack 2.

The Novell ClientTM is not required on Client workstation.

iPrint setup requirements:

- Controller setup requires LPR protocol
- Novell Server setup requires:
 - NDPS setup
 - iPrint setup
- Client Setup requires:
 - Windows 2000, XP, Server 2003, Vista Operating Systems
 - Network browsers (Internet Explorer, Mozilla Firefox, ...)
 - Novell iPrint client (automatically proposed to be installed the first time iPrint is used from the end user workstation)
 - (Novell Client is NOT required).

Controller Setup

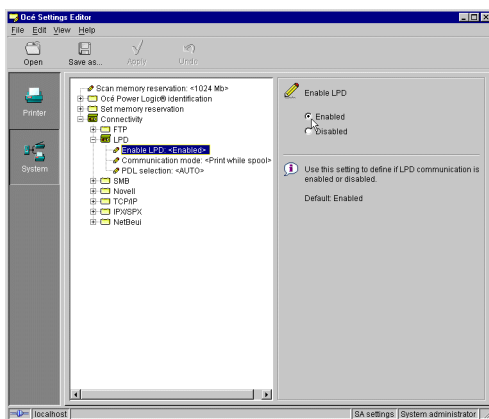
In NDPS/iPrint environment, the Novell Server send jobs to the Océ TDS/TCS/ColorWave 600 controller by means of the LPR protocol, so this protocol must be enabled on the controller.

Note: *You MUST be logged on as a System Administrator.*

~

Enable the LPR protocol for all Océ TDS/TCS systems except Océ TCS300, Océ TDS700 and Océ ColorWave 600

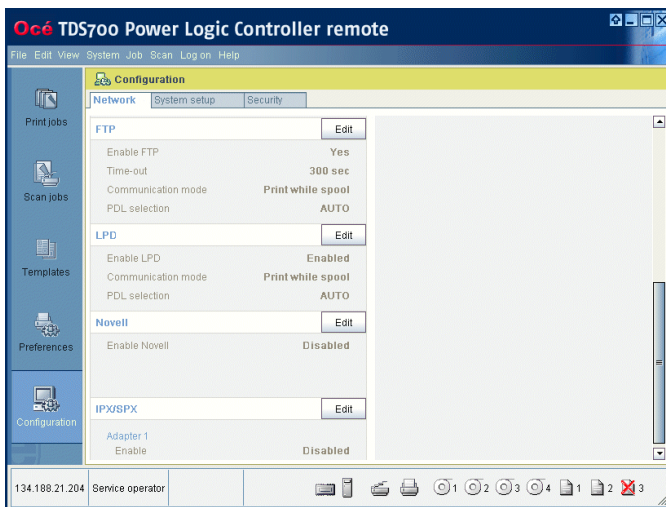
- 1 Switch the Océ Settings Editor in SA Mode (see page 257).
- 2 Expand the ‘Connectivity’ Folder.
- 3 Expand the ‘LPD’ folder.
- 4 Select ‘Enable LPD’ document.
- 5 Select ‘Enabled’ on the right window (‘Enable LPD’):



- 6 Click ‘Apply’.
- 7 Reboot the controller (see ‘Reboot the controller’ on page 259).

Enable LPR/LPD Protocol for Océ TDS700

- 1 Open the 'Configuration' menu.
- 2 Select the 'Network' tab.
- 3 Scroll down to 'LPD' section and click 'Edit'.



- 4 Select 'Enabled' (in 'Enable LPD').
- 5 Click 'OK'.

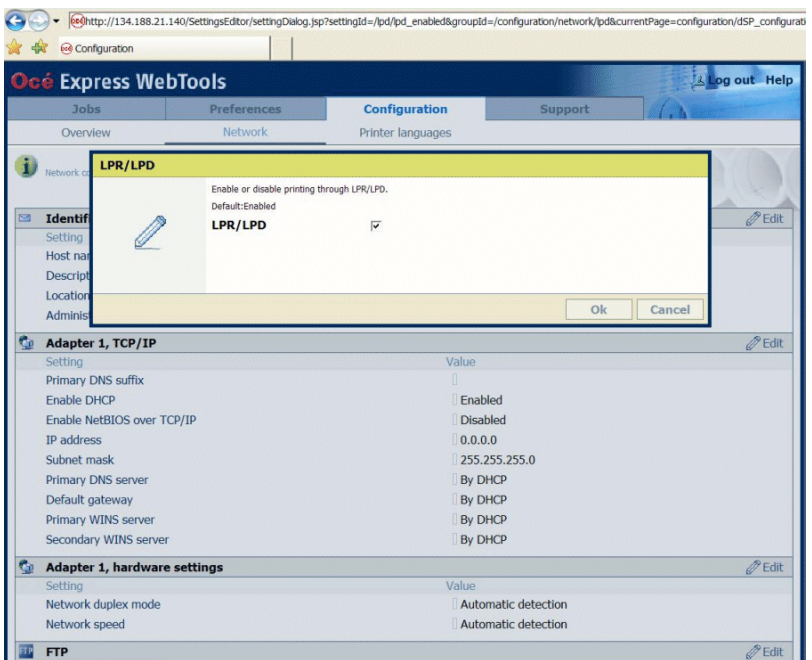
~

Enable the LPR/LPD protocol for the Océ TCS300 and Océ ColorWave 600 systems

Note: The LPR protocol is enabled by default for the TCS300 and Océ ColorWave 600

Note: You must be logged as a System Administrator to change this setting

- 1 From a client workstation, open a web browser and access the Océ Express WebTools (http://<TCS300_HOSTNAME> or http://<Océ_ColorWave_600_HOSTNAME> - see 'Configure the TCP/IP settings for the Océ TCS300/Océ ColorWave 600' section on page 32).
- 2 In the 'Configuration' tab, select 'Network'.
- 3 In the 'LPD' section, click on 'Edit'.
The 'LPD' window pops up.
- 4 Check the 'LPR/LPD' setting box to enable the LPR protocol.
- 5 Click on the 'OK' button to validate the new setting and close the window.



Novell Server Setup

NDPS Setup on Novell Server

Although NDPS setup is described in previous section (NDPS setup), we describe now another quick way to setup NDPS by using a new Novell 6.x feature: ‘Configuring NDPS using a Web browser on a client workstation’ (no Novell client required).

However the Web services should be configured on the Novell Server (see your Novell Administrator).

~ **NDPS setup steps:**

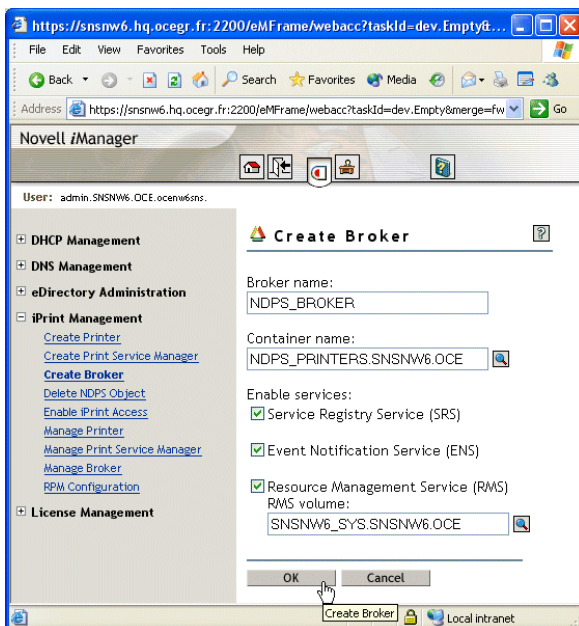
- 1 Create and configure NDPS Broker
- 2 Create/Start an NDPS Print Manager
- 3 Create an NDPS Printer Object

These 3 steps are described below:

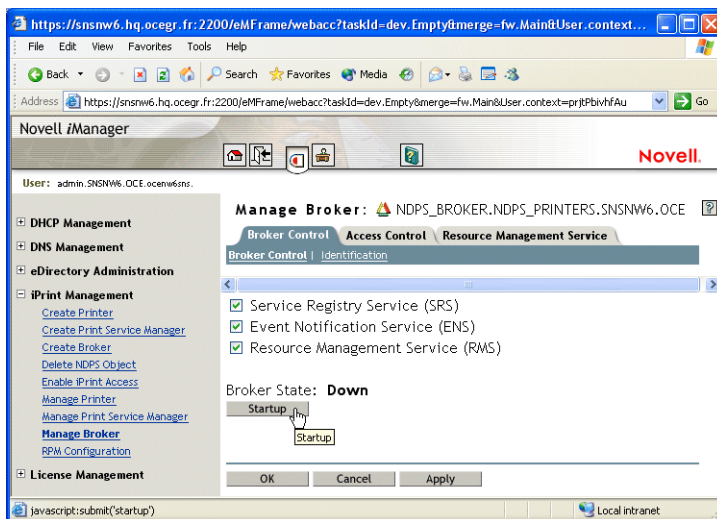
~ **Step 1: Create a NDPS Broker**

- 1 With your preferred Web browser, authenticate to the eDirectory iManager (Ask your Novell Administrator for accessing to the NetWare Web Manager URL which is <https://snsnw6:2200> in our example)

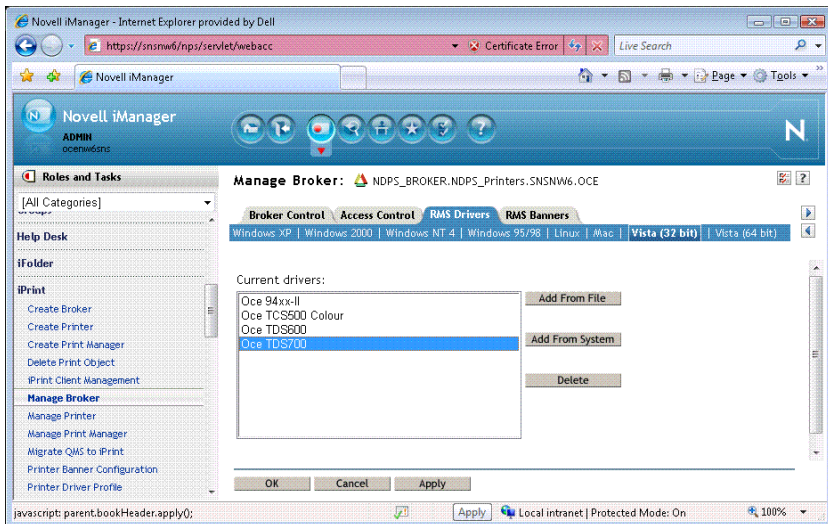
- 2 In menu: iPrint Management/ Create Broker, give a name, a container where to put the broker, and a RMS volume:



- 3 Activate the Broker: in menu iPrint Management/ Manage Broker, select thus you just created, click on 'Startup', and check the operation is successful:



- 4 As the NDPS broker is the repository for the drivers, you need to configure it and add the different relevant drivers for the different OS. First check that iPrint Client is installed (if not, install it).
- 5 In the 'iPrint Management/ Manage Broker/ Resource Management Service Tab/ Add from file' menu, select the driver, click 'OK'.
- 6 Repeat for any drivers you want to add.
- 7 Click 'Apply' or 'OK' in the Resource Management Service:



Important: To autoloading the NDPS Broker when you restart the Novell Server, add the following line to your server's *autoexec.ncf* file:

```
load broker <NDPS Broker name and context>
```

For example in our case:

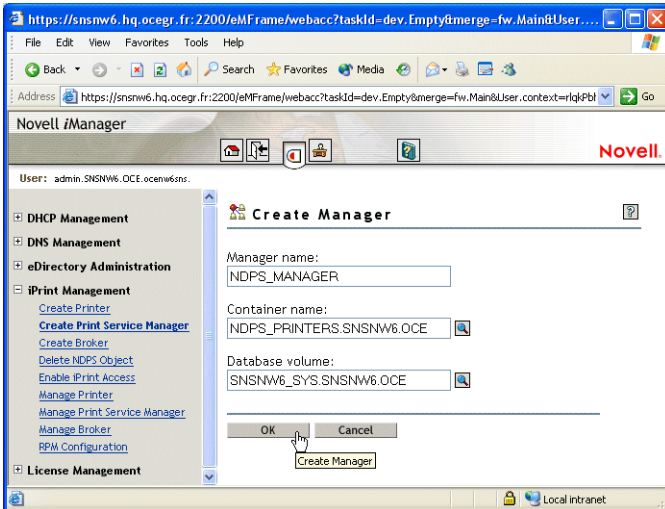
```
load broker .NDPS_BROKER.NDPS_PRINTERS.SNSNW6.OCE
```

Note: This can be achieved by loading NetWare configuration tool on Novell 6.x Server (ask your Novell NetWare Administrator): load nwconfig.

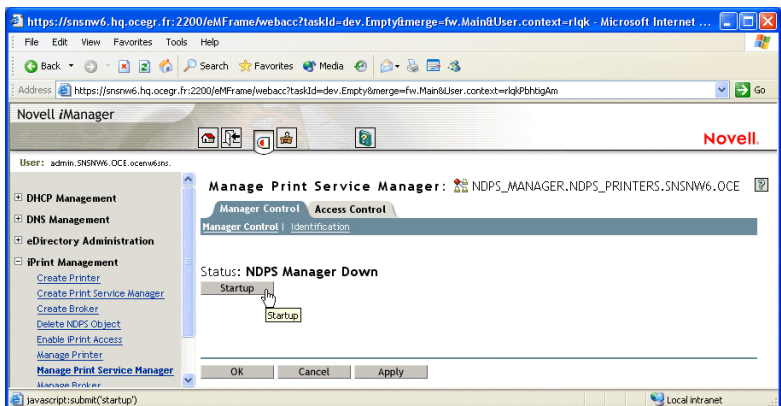
If this autoloading operation is not done, the NDPS broker will not be loaded at startup, moreover you may be confused since iManager services may indicate you the NDPS Broker works correctly.

Step 2: Create/Start a NDPS Print Manager

- 1 With your preferred Web browser, authenticate to the eDirectory iManager (Ask your Novell Administrator for accessing to the NetWare Web Manager URL which is `https://snsnw6:2200` in our example).
- 2 In menu: iPrint Management/ Create Print Service Manager, give a name, a container name and a Database volume where to put the Print Manager and click 'OK' to create it:



- 3 You must now start the NDPS print manager.
In menu iPrint Management / Manage Print Service Manager, click on Startup and check the operation is successful:



Attention: To autoload the NDPS Manager when you restart the Novell Server, add the following line to your server's **autoexec.ncf** file:

```
load ndpsm <NDPS Manager name and context>
```

For example in our case:

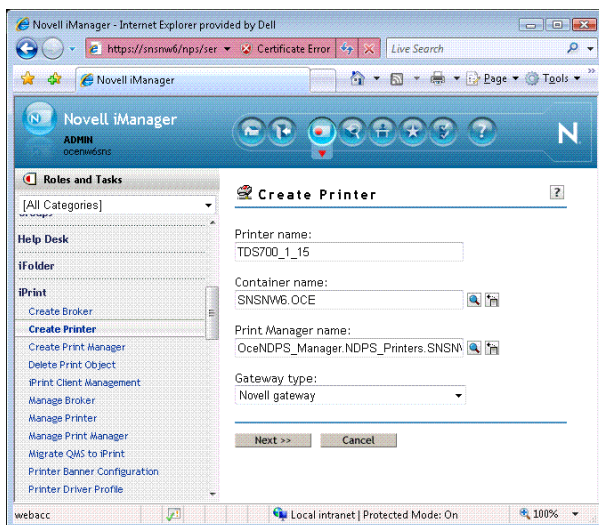
```
load ndpsm .NDPS_MANAGER.NDPS_PRINTERS.SNSNW6.OCE
```

Note: This can be achieved by loading NetWare configuration tool on Novell 6.x Server (ask your Novell NetWare Administrator): load nwconfig.

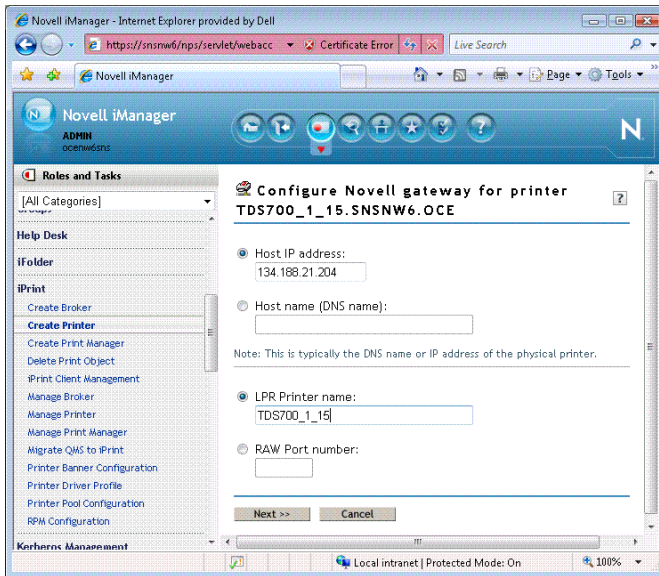
If this operation is not done, the NDPS manager will not be loaded after rebooting the Novell Server, moreover you may be confused since iManager services may indicate you the NDPS Manager works correctly.

Step 3: Create an NDPS Printer Object:

- 1 With your preferred Web browser, authenticate to the eDirectory iManager (Ask your Novell Administrator for accessing to the NetWare Web Manager).
- 2 In the 'iPrint / Create Printer' menu, give a name, a container where to put the printer, the manager name you previously created and a Gateway type: 'Novell gateway', then click on 'Next':

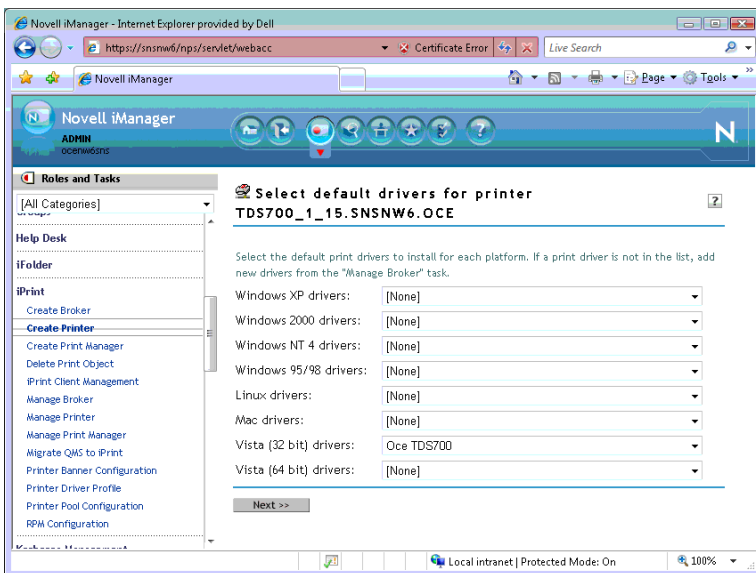


- 3 Enter the IP address (preferred than hostname which requires DNS resolution on Novell Server) and the printer name:

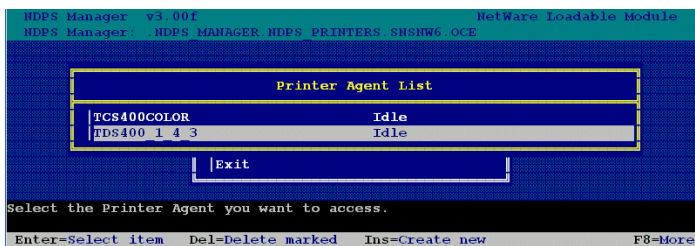


Note: *DO NOT* include character ‘.’ in Printer name to avoid troubles.

- 4 You can then select the driver for each Operating System (you can also do it later with the ‘Manage Printer’ menu, after having added new drivers if required, with iPrint Management/ Manage Broker/ Resource Management Service):



- 5 You can now check on Novell Server (with NDPS Manager console) whether the Printer is idle:



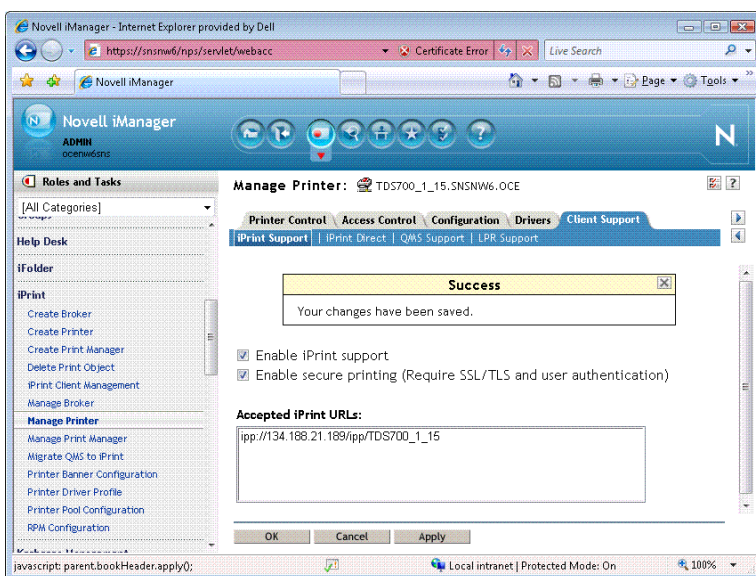
Note: If status is “Needs attention” instead of “Idle”, check whether the controller is powered on and connected to the network.

Note: You *MUST* enable iPrint support on your NDPS printer.

~

Enable iPrint on Novell Server

- 1 With your preferred Web browser, authenticate to the eDirectory iManager (Ask your Novell Administrator for accessing to the NetWare Web Manager URL which is <https://snsnw6:2200> in our example).
- 2 In the 'iPrint / Manage Printer' menu, select the relevant Printer, go to Client Support tab, and check the 'Enable IPP support' (you can also check the 'Enable secure printing (Require SSL/TLS and user authentication)' for security reason), then Apply settings:



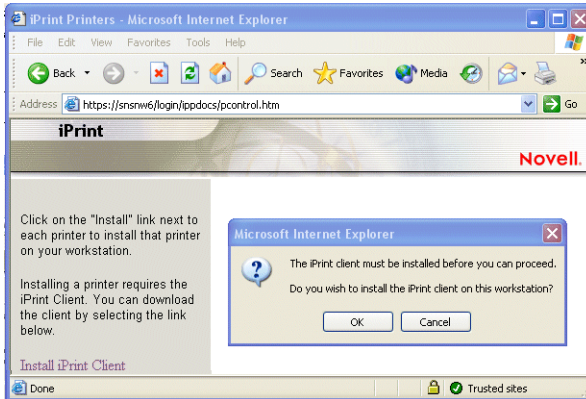
Note: You can notice the URL web access for the printer:
https://snsnw6.hq.ocegr.fr/ipp/TDS400_1_4_3

Client Workstation Setup

- 1 On your client workstation, open a browser and point it to the following URL:
`https://[Novell Server Name]/ipps` (in our example, the URL is `https://snsnw6/ipps`).

Note: *If authentication is needed, please ask to your NetWare Administrator.*

- 2 The first time, you are prompted to install the iPrint Client software:



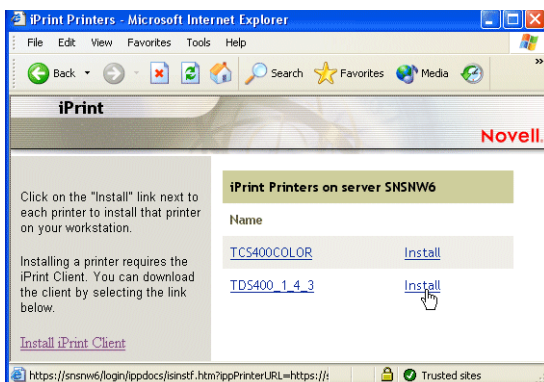
- 3 After iPrint has been installed (choose 'Open' when file download window for `nipp.exe` appears) and after rebooting the client PC (as proposed at the end of iPrint installation), open a Browser again and point it to the following URL:
`https://[Novell Server Name]/ipps` (in our example: `https://snsnw6/ipps`).

Note: *YOU MUST have administrator privileges to install the iPrint Client software. If not, ask your local administrator.*

See also 'Other setup procedure without iPrint Client installation' section.

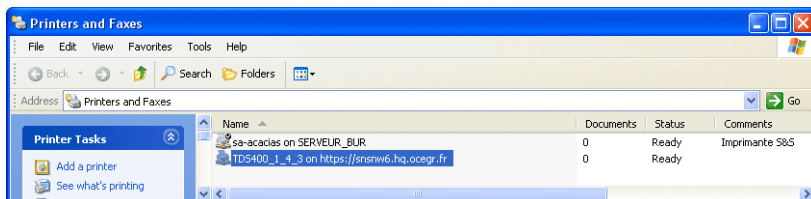
- 4 You should be able to view the Printer installed during the Server Setup, click on 'Install' to install the driver:

Note: *If authentication is needed, please ask to your NetWare Administrator.*



- 5 After confirming the Printer installation, the driver is automatically downloaded from the Novell Server to the Client Workstation according to the Client Workstation Operating System.

You can check Printer has been installed by opening Printers in Windows Operating system, you can see:

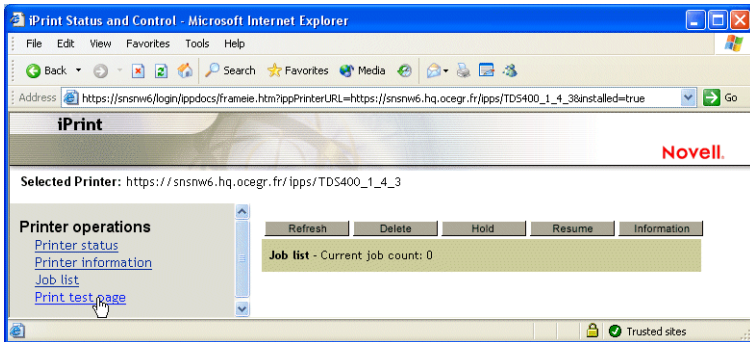


You can now use this printer to print from any application.

- 6 After installation, you can print a Test Page by using your Browser: open your Browser again and point it to the following URL:

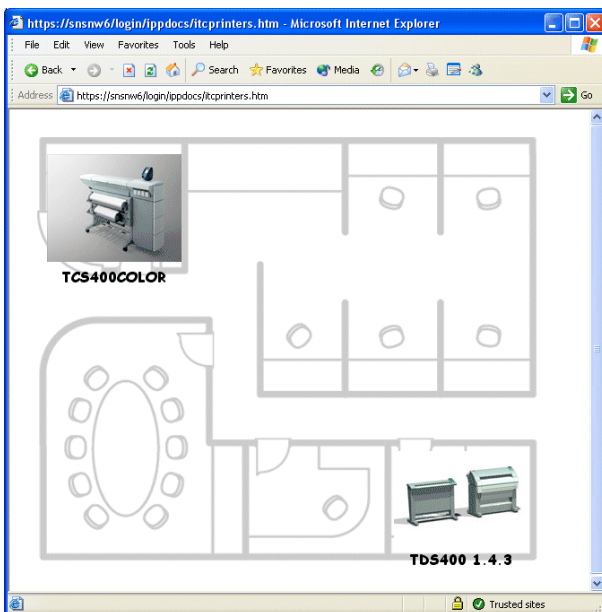
https://[Novell Server Name]/ipps (in our example: https://snsnw6/ipps).

- 7 Select the Printer TDS400_1_4_3, then click on 'Print Test Page':



- 8 Using the iPrint Map Designer tool, you can quickly create a map showing printer locations which is published on a Web, so users can install printers that are closest to their location.

Here is an example of such a HTML page:



- 9 Clicking on one Printer allows you either to install the Printer driver or to consult the Printer status (Jobs, Test page, ...) if the printer driver has already been installed.

Note: Refer to Novell documentation for further information.

Troubleshooting

Queue Based Printing Troubleshooting

This section describes a list of troubleshooting items you can find during Queue Based Printing setup. It is aimed at the Local Network Administrator and/or End User.

I cannot install any driver on a client workstation under Windows Vista OS, even with this manual's instructions

On Windows Vista operating system, it is not possible to view the queues from Novell Queue Based Printing. Indeed, Windows Vista OS does not support the Novell Queue Based Printing anymore.

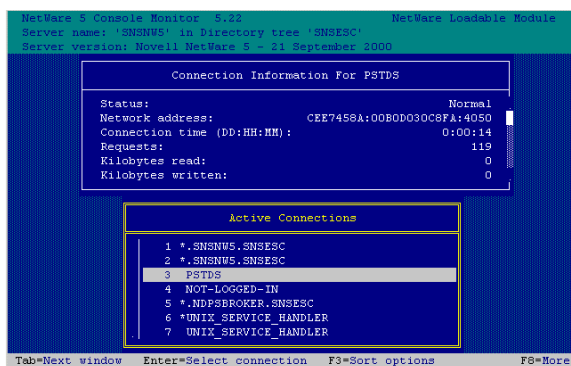
Instead, you can use an alternative method, like iPrint (see 'iPrint Setup (Novell 6.x, Novell 5.1 with Support Pack 2)' on page 193).

For more details, please refer to: <http://www.novell.com/products/clients>.

No printing occurs.

If no printing occurs once all settings (Océ TDS/TCS + Novell Server + Client workstation) have been done:

- You can check the Print Server embedded in Océ TDS/TCS is correctly connected to the Novell Server by checking on the Novell Server itself: normally there is an active connection on print server (PSTDS) which must appear in the *NetWare Console Monitor / Connection* available option with the status: NORMAL



- If the Print Server is not present in NetWare Console connection status, reboot the Océ TDS/TCS
- If the Print Server is present in NetWare Console connection status, but the status is AUTHENTICATED: Delete the Print Server connection on Novell Server, then Reboot the Océ TDS/TCS.

Printing occurs after a while.

Normally, the controller polls for job every XX seconds, XX is set in Océ TDS/TCS controller (Settings Editor) and the default value is 30 seconds, so printing may occur by default 30 seconds after having submitted the job.

Print Server Name problem.

It is not recommended to mix lower case and upper case characters when naming Print server, printer Queue and Printer. More generally, check you follow standard object naming conventions:

- ‘...Not all print server names will be valid...’
Service Advertising Protocol (SAP) names. For example, SAP names may not exceed 47 characters, they cannot contain spaces, and they must be in all-caps. In addition, many double-byte characters used on certain code pages are not valid SAP characters.

Novell Capture not persistent with port LPTx.

When using Novell capture to redirect LPTx: port to Novell Queue, after rebooting Windows, the capture is not active again except when the check box ‘Check to always capture this port when you start Windows’ has been checked. In this case, rather put a ‘capture’ command line in the Novell login scripts (ask your Novell Administrator for that purpose).

My job name is LPT3 in Océ TDS/TCS Queue Manager.

Cause is that the driver port is LPT3, and LPT3 has been redirected to Novell Queue (capture). To avoid this problem, please do not use the capture but other alternatives for installing a driver in the relevant section.

I cannot see ‘PSERVER’ on Novell Server Monitor connection section.

Check you have not exceeded the maximum number of authorized licenses (Use NLS for that purpose: ask your Novell Administrator).

NDS CONTEXT name problem.

Among the Océ TDS/TCS controller settings (Novell section), you can either use the *typeful* or *typeless* convention when entering the NDS context name:

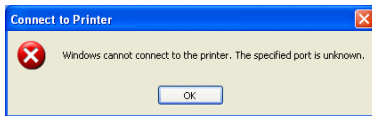
- **NDS context:** ‘*SNS.OCE*’(typeless notation) OR
- **NDS context:** ‘*OU=SNS.O=OCE*’(typeful notation)

In the case of Country addition, it is highly recommended to use the typeful convention:

- NDS context: 'OU=SNS.O=OCE.C=FR'
- (Do not use *NDS context*: 'SNS.OCE.FR')

'Windows cannot connect to the printer' when adding a printer driver under Windows XP.

If you encounter such a windows message when adding a Printer driver.

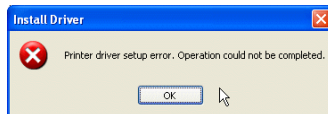


Check:

- If the Print Server is not present in NetWare Console connection status, reboot the Océ TDS/TCS
- If the Print Server is present in NetWare Console connection status, but the status is AUTHENTICATED: Delete the Print Server connection on Novell Server, then Reboot the Océ TDS/TCS

'Printer driver setup error' under Windows XP.

When installing a driver under windows XP with 'Add printer' method, you may have the following error window just after the driver files are copied to the system folder:



Check whether the driver officially supports Windows XP.

Note: Get the latest version of the driver from the 'Download, Drivers and Support' section on <http://www.oce.com>.

Others

Always check:

- you have the last Novell Support pack for your Novell Server
- you have the last Novell client for your Operating System
- you have the last patches for your Novell client.

Note: Consult Novell site (www.novell.com).

NDPS Troubleshooting

This section describes a list of troubleshooting items that can occur during NDPS setup. It is aimed at the Local Network Administrator and/or End User.

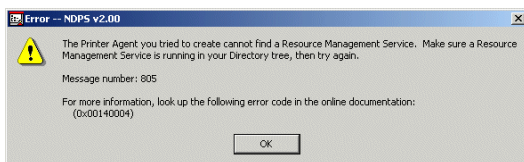
I cannot install any driver on a client workstation under Windows Vista OS, even with this manual's instructions.

On client workstations running under Windows Vista operating system, it is not possible to view the NDPS printers.

Instead, you can use an alternative method, like iPrint (see 'iPrint Setup (Novell 6.x, Novell 5.1 with Support Pack 2)' on page 193).

For more details, please refer to: <http://www.novell.com/products/clients>.

Creating the Printer Agent fails because of the following error:



This is probably due to the fact a Resource Management Service is not active: Search for a 3 interlaced triangles object with NetWare Administrator console:



If not present, NO NDPS broker is installed, go to section 'NDPS Broker setup' on page 179.

If present, double click on it, and check the status in the identification section:

- If Status is 'NDPS broker state down', go to 'NDPS Broker setup' on page 179.
- If Status is 'NDPS broker state active' go to 'NDPS Broker RMS setup' on page 183.

Printing in NDPS is very slow with Novell gateway 'LPR' printing.

There is a known problem on Novell lpr client slow rate (~25 KB/s).

Ref. Novell 10057434: Printing to LPR-based printer using Novell Printer Gateway in LPR mode results in slow delivery of print data and slow print job processing times.

Download the Novell patch: NDPS-Post SP2/SP6 NDPS updates (Last modified: 17OCT2001). It contains (between other) fix for lpr client.

These updates are intended for any one of the following platforms:

- NetWare 5.1 with Support Pack 2 applied running NDPS 2.1.3.
- NetWare 5.0 with Support Pack 6 applied running NDPS 2.0.6.

NDPS broker setup: add resource problem: the browse button does not work.

This problem was noticed on Windows 2000 Operating system when browsing while adding a resource.

Note: *This problem may also occur on other Operating System.*

To solve this problem, you need to launch **nwadm32.exe** with the following option (require command line). For instance:

```
Z:\ win32\nwadm32.exe /DisableTlSMGR
```

You cannot see the NDPS printer while browsing with Network Neighbourhood.

This is a known issue only for Windows 2000/Windows XP platforms which has an impact when trying to create a printer.

~

Workaround:

- 1 Create a Queue Object on Novell Server.
- 2 Link it to a NDPS printer so that Windows 2000/Windows XP can browse Queue objects.
- 3 You can then create a printer on Queue Object destination.

Note: *This method works fine on pure IP network while problems may occur whenever IPX and IP protocols are mixed.*

Can we use NDPS with NetWare 4?

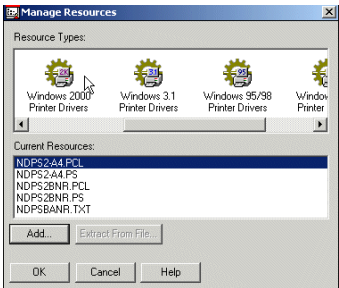
There is a NDPS package for NetWare 4 which is obsolete so not advised. Recommendation is to upgrade to NetWare 5.X in order to use NDPS.

Cannot see Windows XP when configuring NDPS broker.

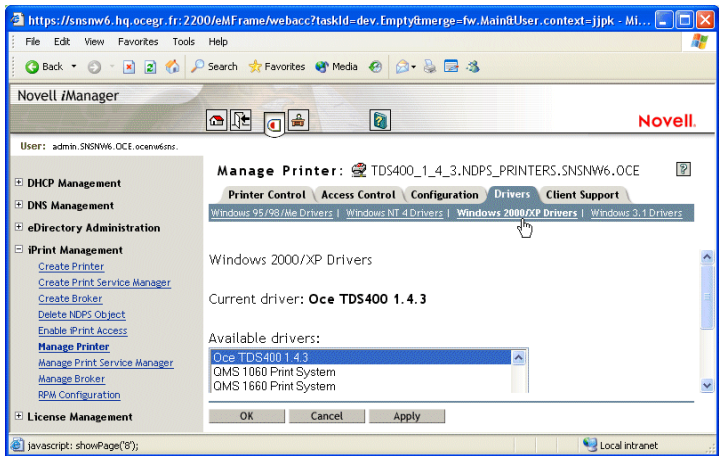
On Novell 5 version, the Windows XP repository on NDPS broker (manage resources) is not always represented (only Windows 2000).

Workaround:

On an XP client workstation, you have to install the Windows 2000 driver.



The problem has been solved with Novell 6.x when administrating NDPS broker through Web interface (we can see Windows 2000/XP drivers combined).



The Novell Client cannot upload WPD driver on NDPS broker

Some Novell Client versions are not able to upload drivers to the NDPS broker. This may be due to the driver files organization.

Workaround 1:

Starting from Novell 6 SP2, use iManager (Web administration) instead of nwadmn32.exe to upload WPD driver for Windows 2000/Windows XP to the broker.

Workaround 2:

Whenever not possible to use iManager or whether your version of iManager still has the problem, check that the latest Support Pack or latest Hot fixes have been applied.

Workaround 3:

In case Workaround 1 or 2 are not working, check you have the latest Océ Driver version (the driver organization is flat, meaning that all the driver deliverables are on the same directory level as the .INF driver file).

Related Novell Reference: TID 10070612: Unable to add printer drivers to RMS database:

<http://support.novell.com/cgi-bin/search/searchtid.cgi?/10070612.htm>

Scan to File using SMB on Novell 6 Server

You can Scan to File from TDS400 to a Novell 6 Server using SMB protocol. This feature, not available on previous version, can be achieved on Novell 6 assuming the **Native File Access for Windows Package** has been installed on Novell 6 Server.

iPrint Troubleshooting

1801 error or Unexpected error when defining iPrint settings on Client workstation.

For proper operation with IPP printing, download the latest IPP client from the Novell web site.

Error 404 when attempting to install an iPrint printer on Client Workstation.

There is a port conflict on port 443 between iPrint and the Web Based products. Follow the instructions provided in the following URL:

- <http://support.novell.com/cgi-bin/search/searchtid.cgi?/10066950.htm>

Failure when Configuring iPrint with Web services on a Client Workstation.

If you encounter problems when trying to configure iPrint/NDPS with iManager, install the latest Novell Support pack. If the problem persists, try to configure iPrint with NetWare Administration console on your Client Workstation (Novell Client required).

Avoid special characters when creating a printer name.

When you create a printer using the Web Services (iPrint Management/ Create Printer), do not use special characters (like ‘.’).

Impossible to print with WPD driver installed via iPrint (error message ‘Cannot start print job’)

This may occur with some previous versions of WPD driver (WPD 1.8.2 or WPD 1.9). Check that the latest version of WPD is installed.

WPD driver installation via iPrint hangs up on a client workstation

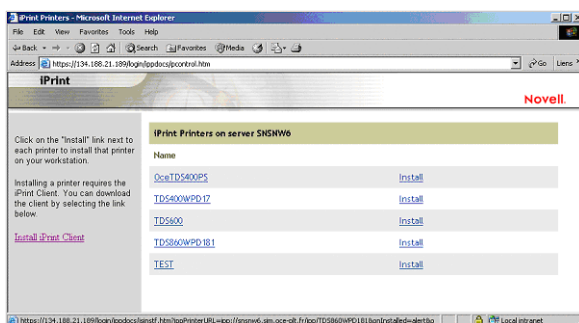
With Novell NDPS/iPrint, you can install a driver on a client workstation by browsing (with Internet Explorer) the drivers installed on a dedicated Novell Server.

In the list of printers available on the Novell Server, click on the printer to install. Automatically, an iPrint client is installed on the Client workstation, and the driver installation is launched.

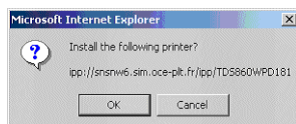
If you encounter a hangup during the printer installation (iPrint client is looping forever), apply the following workaround:

Retrieve the printer path

- 1 Open an Internet Explorer window.
- 2 Enter the iPrint URL to display the available printers:



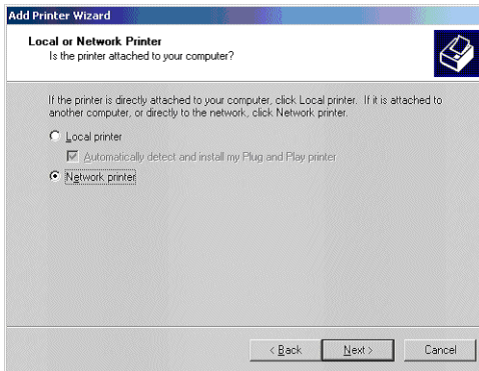
- 3 Click on the 'Install' link attached to the printer you want to install. It opens the following window:



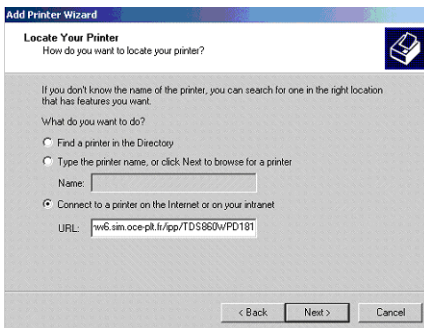
- 4 Note and keep the complete printer path:
'ipp://snsnw6.sim.oce-plt.fr/ipp/TDS60WPD181' in our example.
- 5 Click 'Cancel' to avoid installation.
- 6 Follow the procedure to install the printer via the 'Add Printer Wizard'.

Install the printer using the Add Printer Wizard

- 1 Open the Add printer wizard (from 'Start - Settings - Printers and faxes', 'Add a printer' task).
- 2 Select a 'Network printer':



- 3 Click 'Next' and select 'Connect to a printer on the Internet or on your intranet'.
- 4 Enter (as URL) the name you previously noted (in our example: `ipp://snsnw6.sim.oce-plt.fr/ipp/TDS860WPD181`).



- 5 Click 'Next' and finish the installation.
The installation is successfully completed (without any iPrint client window).

Chapter 5

Macintosh Environment

This chapter describes how to setup the Océ controller to make it work in a Macintosh environment.



Introduction

To connect a Macintosh® computer to an Océ TDS/TCS/ColorWave 600 printer, you must use the TCP/IP protocol in a peer to peer configuration.

The TCP/IP protocol is active by default on the Mac OS® X.
Refer to your Macintosh® User Guide to check the TCP/IP protocol.

Controller configuration

To use the Océ systems from a Macintosh environment, you need to apply the same rules on the system controller as for the Windows environment.

Configuration	All TDS/TCS systems - except TDS700, TCS300	Océ TDS700	Océ TCS300 Océ ColorWave 600
Enable the TCP/IP protocol	(see page 24)	(see page 33)	(see page 34)
Enable DHCP	(see page 25)	(see page 33)	(see page 34)
Configure TCP/IP general parameters	(see page 26) up to page 30	(see page 33) (see page 32)	(see page 34)
Configure DNS servers	(see page 29)	(see page 33)	(see page 34)
Enable LPR protocol	(see page 39)	(see page 39)	(see page 40)
Enable FTP protocol	(see page 44)	(see page 44)	(see page 45)

[11] Controller configuration for Macintosh

Print from a Macintosh workstation

Print using an Adobe PostScript 3® driver

Refer to the Océ PS3 Installation Guide.

Print via FTP

You can use FTP to transfer job prints from Mac OS X only.

~

Print via FTP on Mac OS X

- 1 From the Finder, open 'Applications - Utilities - Terminal' to access the UNIX terminal window.
- 2 Enter the 'ftp' command.
You get the 'ftp>' prompt.
- 3 Enter the 'open' command followed by either:
 - the registered name of the remote host ('open hostname').
 - the IP address (e.g. 'open 134.188.21.155').
- 4 Press 'Enter' to connect to the remote FTP server.
The connection with the FTP server is now established and a prompt appears asking for a user name.
Note: Instead of performing steps 2 and 3 you may also enter 'ftp hostname' in the FTP client.
- 5 Enter a user name (e.g. 'anonymous'), and press 'Enter' when prompted for the password.
A connection is now set up for the user 'anonymous'.
- 6 Enter 'binary' to set the transmission mode to binary.
- 7 Use the command: 'cd jobs' to open the jobs directory.
- 8 Go to the local directory in which the data you want to print are stored (for example a MISC folder) by using the following command:
`lcd [here you drag and drop the icon of your MISC folder]`
- 9 Send the data file (for example: test.pdf) via either:
 - the 'put' command and the file name (e.g. 'put test.pdf').
 - the 'put' command and you drag and drop the icon of your 'test.pdf' file (e.g. 'put [icon of your 'test.pdf' file]').

Note: The data is now sent to the input spool directory of the controller, processed and printed.

```

Terminal — bash — 83x30
Last login: Fri Feb 13 11:13:09 on tttyl
Welcome to Darwin!
MacG4::~ genius$ ftp
ftp> open 134.188.21.165
Connected to granada-sns.
220 granada-sns FTP Service (Version 3.2.1).
Name (134.188.21.165:genius): anonymous
331 anonymous access allowed, send identity (e-mail name) as password.
Password:
230 anonymous user logged in.
Remote system type is Windows_NT.
ftp> binary
200 Type set to I.
ftp> cd jobs
250 CWD command successful.
ftp> lcd /Users/genius/Desktop/Misc
Local directory now /Users/genius/Desktop/Misc
ftp> put /Users/genius/Desktop/Misc/test.pdf
local: /Users/genius/Desktop/Misc/test.pdf remote: /Users/genius/Desktop/Misc/test.
pdf
500 'EPSV' command not supported or understood
227 Entering Passive Mode (134,188,21,165,15,94).
150 Opening BINARY mode data connection for /jobs.
100% |*****| 127 KB 3.40 MB/s 00:00 ETA
226 Transfer complete.
130681 bytes sent in 00:00 (1.31 MB/s)
ftp> bye
221 Good bye.
MacG4::~ genius$

```

Scan to File to a Mac OS X computer (using FTP)

You can scan a file and send it to a Mac OS X workstation.

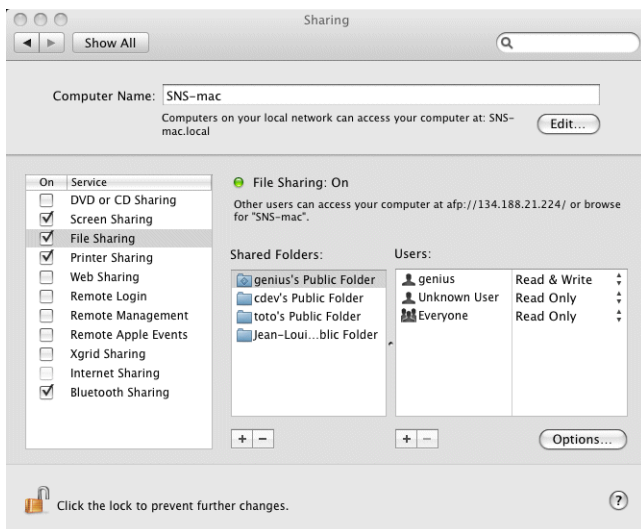
First of all, activate the FTP access to enable the FTP server on the Macintosh computer, then configure the FTP destination in the Scan Manager of the Océ TDS / TCS controller.

Note: *This section does not apply to the Océ ColorWave 600 printer.*

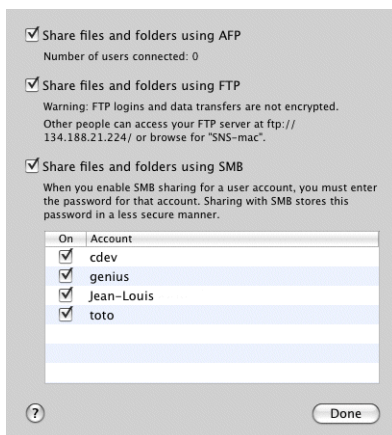
Activate the Macintosh FTP access

To use the Macintosh computer as a FTP server, make sure that the 'FTP Access' is activated on the 'System Preferences - Sharing' window.

- 1 Select 'File Sharing', then click 'Options'.



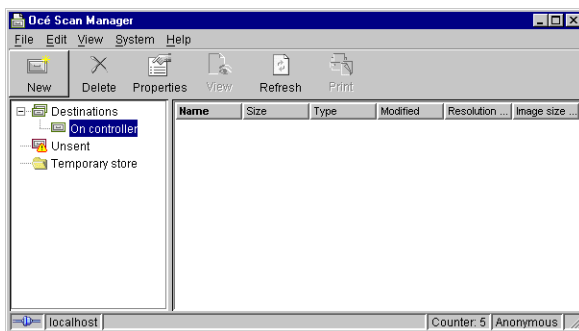
2 Select 'Share files and folders using FTP'.



While FTP access is allowed, you can access the Macintosh files and folders using a web browser or a FTP client software.

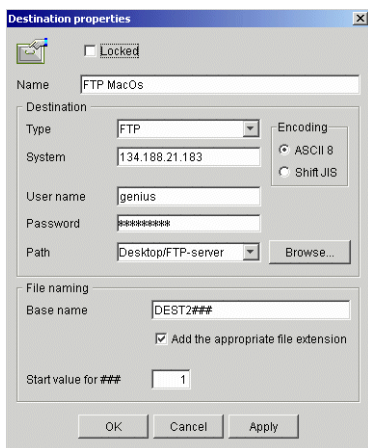
Configure the FTP destination in the Scan Manager

- 1 Select 'Destinations' in the tree view of the Scan Manager.
- 2 Click on the 'New' button of the toolbar.



- 3 The 'Destination properties' dialogue box appears.
- 4 In the 'Name' text box enter a relevant name for the destination.
This name also appears on the scanner panel.
- 5 From the 'Type' drop-down list box choose destination type 'FTP'.
- 6 In the 'System' text box enter the IP address of the Macintosh computer (FTP server).

- 7 In the 'User name' text box enter the user account name authorized on the Macintosh computer.
- 8 In the 'Password' text box enter the password of the user account authorized on the Macintosh computer.
- 9 Browse to find the destination folder.



- 10 Click 'OK'.

The new created destination is now available on the scanner panel. You can select it to send the scanned file to the folder defined on the Macintosh workstation.

Note: *User account name and passwords are not encrypted when sent to the FTP server. This can compromise the local network security. If authenticated access is required use local account on the destination computer rather than domain user account.*

Chapter 6

Linux Environment

This chapter describes how to setup the environment (workstation, print server) to make it work using a Linux system in:

- a Peer to peer configuration (Linux workstation to Océ Printer system)*
- a Client / Server configuration (Linux/Linux, Windows/Linux or Linux/Windows)*



Attention:

***This chapter proposes guidelines how to configure a Linux print environment for Océ equipment.
For more details or support on these environments please refer to their proper documentation and suppliers.***

Introduction

To connect a Linux computer to an Océ TDS/TCS/ColorWave 600 printer, you must use the TCP/IP protocol in a peer to peer configuration.

The procedures below are compatible with Red Hat, Fedora, SUSE and DEBIAN.

Refer to your system User Guide to check or activate the TCP/IP protocol.

Controller configuration

To use the Océ systems from a Linux environment, you need to apply the same rules on the system controller as for the Windows environment.

Configuration	All TDS/TCS systems - except TDS700, TCS300	Océ TDS700	Océ TCS300 Océ ColorWave 600
<i>Enable the TCP/IP protocol</i>	(see page 24)	(see page 33)	(see page 34)
<i>Enable DHCP</i>	(see page 25)	(see page 33)	(see page 34)
<i>Configure TCP/IP general parameters</i>	(see page 26) up to page 30	(see page 33) (see page 32)	(see page 34)
<i>Configure DNS servers</i>	(see page 29)	(see page 33)	(see page 34)
<i>Enable LPR protocol</i>	(see page 39)	(see page 39)	(see page 40)
<i>Enable FTP protocol</i>	(see page 44)	(see page 44)	(see page 45)

[13] Controller configuration for Linux

Linux Server Configuration

- Open the TCP 631 port on the Linux server to print using the HTTP protocol.
- Open the UDP 137, UDP 138 and TCP 139 ports on the Linux server to use Samba, in a Point and Print configuration.
- Disable the Security settings.

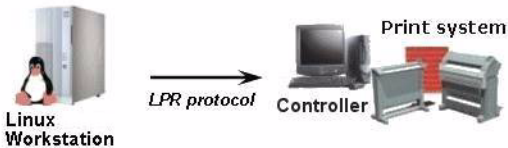
Possible printing configurations using Linux environment

Find below guidelines about the needed configurations and processes to print:

Without print server

Print from a Linux client workstation

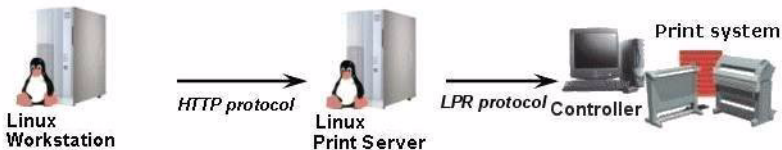
Peer to peer configuration



Using a Linux print server

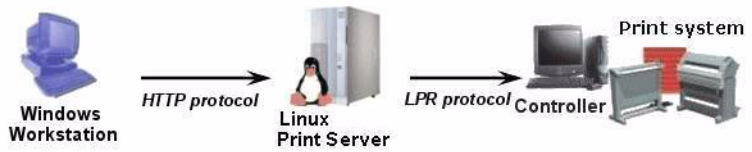
- Print from a Linux client workstation

Linux Client / Linux Server Configuration



- Print from a Windows client workstation

Windows Client / Linux Server Configuration



Using a Windows print server

Print from a Linux client workstation

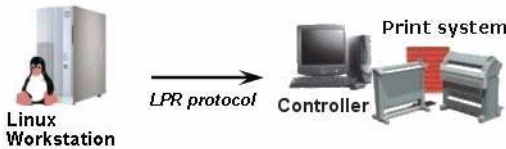
Linux -Client / Windows Server Configuration



Print from a Linux station (Peer to peer configuration)

You can print directly on the Océ system using the LPR protocol and PostScript Driver.

Peer to peer configuration



It is highly recommended to use 'KDE printer manager' to install and configure the Common UNIX Print System (CUPS) using a graphical interface.

Install K Desktop Environment (KDE) Printer Manager on the Linux station

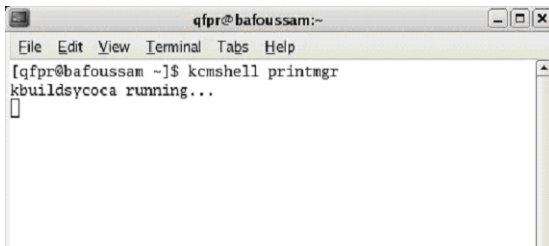
- 1 Open the 'Desktop' / 'System Settings' / 'Add/Remove Applications'.
- 2 On the 'Desktops', select 'KDE'.
- 3 Open the 'Details'.
- 4 Install the 'Standard' packages.

Install a printer on Linux, using KDE

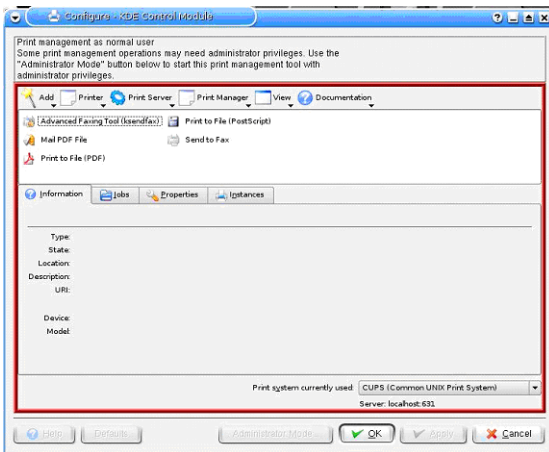
~

Activate KDE Printer Manager

- 1 Activate KDE Printer Manager using the following command line:

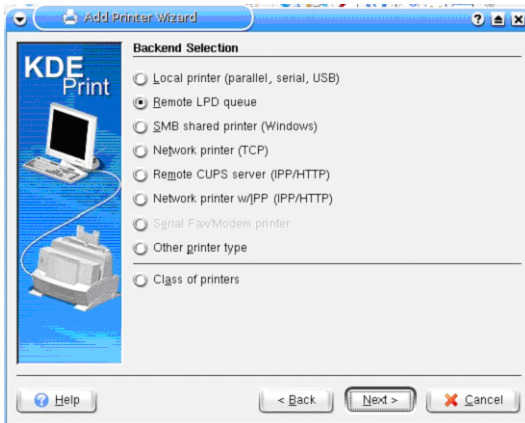


- 2 In the 'KDE Control Module' window, click on 'Add' / 'Add printer':

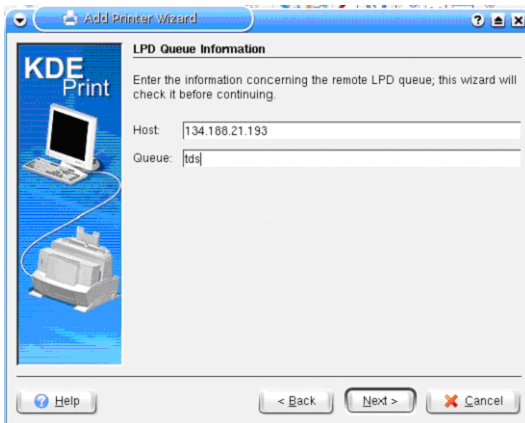


- 3 In the 'Introduction window' of the 'Add Printer Wizard', click 'Next'.

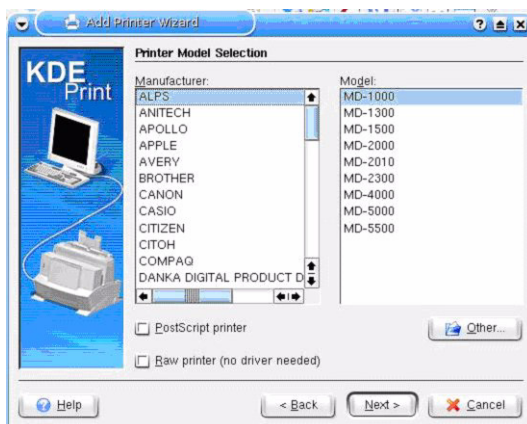
- 4 Select a 'Remote LPD queue' and click 'Next':



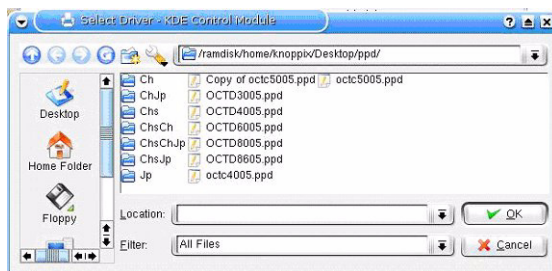
- 5 Define the LPD Queue information by entering the Host and Queue names, and click 'Next':



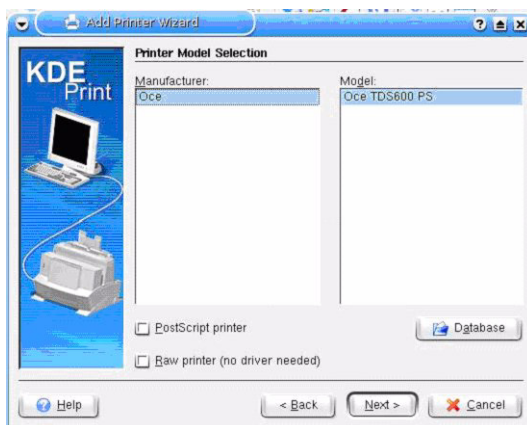
- 6 Select your printer driver by clicking on ‘Other...’:



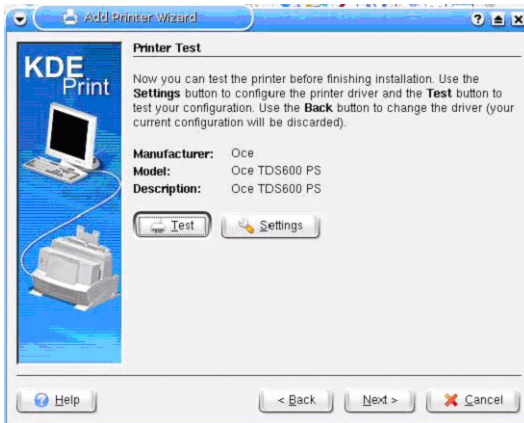
- 7 Select the specific printer ppd file and click ‘OK’:



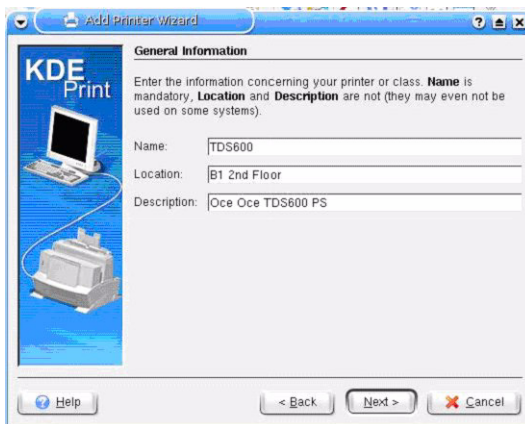
- 8 Once the ppd file installed, click ‘Next’:



- 9 You can print a test page ('Test') and define the driver settings ('Settings'):

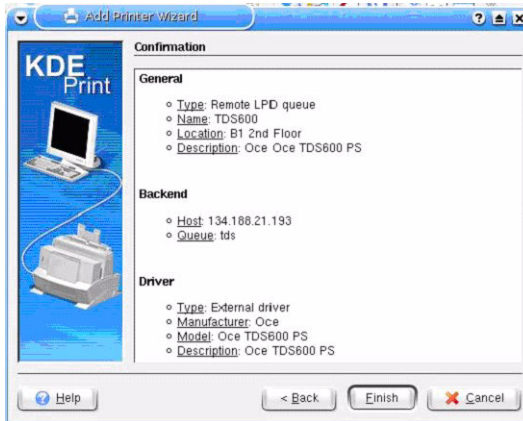


- 10 Set up the printer General Information:

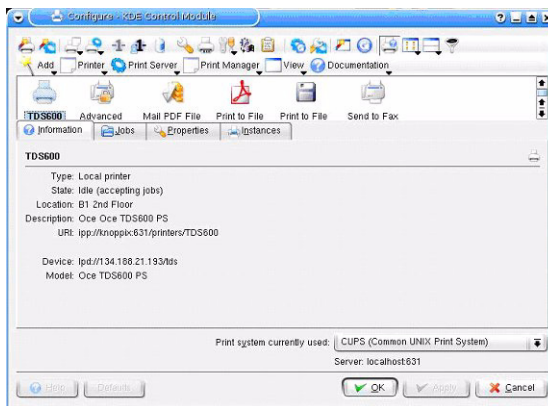


- 11 You can define banners to be added to each printout (Starting / Ending banners).
Click 'Next'.
- 12 Define quota to be applied to this printer, per user (if needed):
Period, Size limit, Page limit.
Click 'Next'.
- 13 Define the allowed users for this printer (Allowed / Denied user).
Click 'Next'.

14 Check the general information about the printer:



15 To complete the installation, confirm the information by clicking on 'Finish'.
The printer is installed:



Print from the station

You can use this new installed printer to send print files from the Linux station to the Océ printing system (Peer to peer configuration).

Print using a Linux print server

In a Client / Server configuration, you can print using a Linux server from either a Linux or a Windows client workstation.

In both cases you have first to setup the Linux print server. Once the print server is ready, you can connect and configure the Linux or Windows client.

Setup Linux print server

It is highly recommended to:

- 1 Install 'KDE printer manager' to install and configure the Common UNIX Print System (CUPS) using a graphical interface.
- 2 Configure the Linux print server firewall to allow access for remote clients.
- 3 Add a printer on the server.
- 4 Configure the print server to allow printing from a remote client.

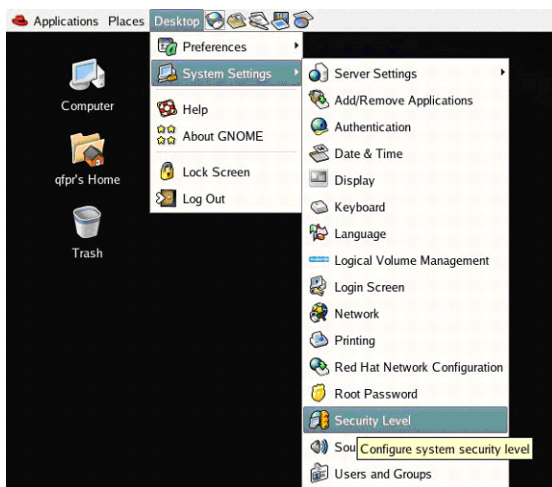
Important: *Administrator rights on the Linux print server are required to install the Océ printer and perform the server configuration.*

Install K Desktop Environment (KDE) Printer Manager on Linux print server

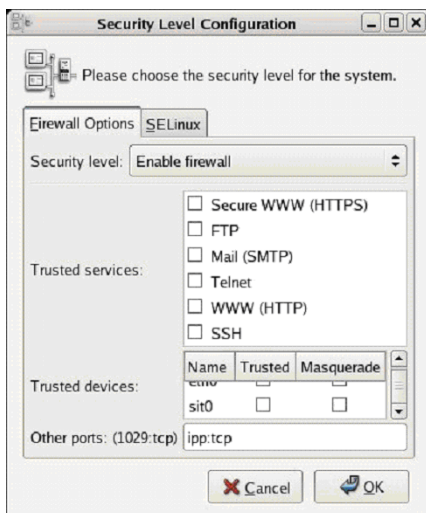
- 1 Open the 'Desktop' / 'System Settings' / 'Add/Remove Applications'.
- 2 On the 'Desktops', select 'KDE'.
- 3 Open the 'Details'.
- 4 Install the 'Standard' packages.

Configure the Linux print server firewall to allow client remote access

- 1 Open the 'Desktop' / 'System Settings' / 'Security Level':



- 2 In the 'Security Level Configuration' window, select the 'Firewall Options' tab.
- 3 Enter '631:tcp' (or 'ipp:tcp') in the 'Other ports' field to open the TCP 631 port.

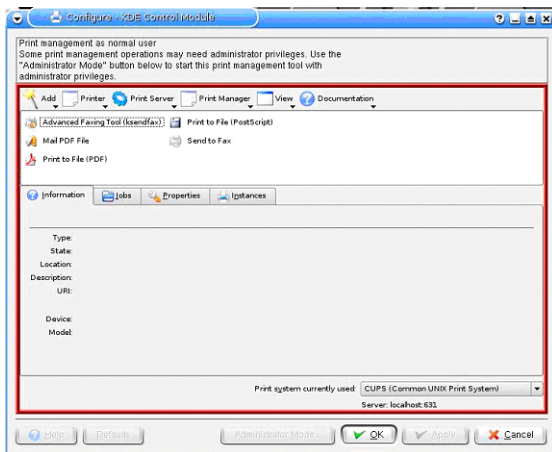


Add a new printer on the Linux print server (CUPS)

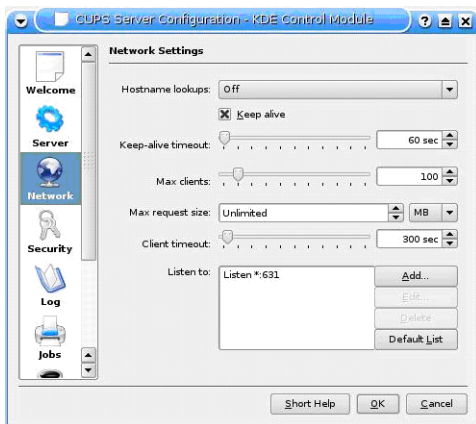
Follow the procedure described in ‘Install a printer on Linux, using KDE’ on page 233.

Configure the Linux print server (CUPS) for a remote client

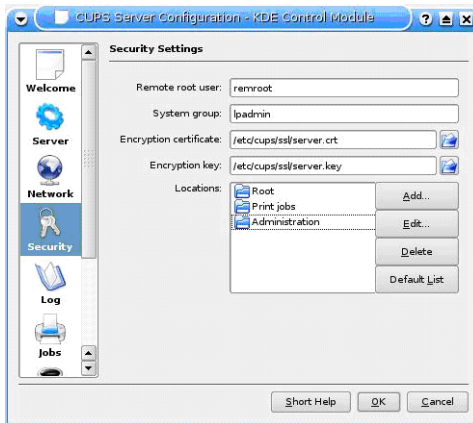
- 1 In the ‘KDE Control Module’ window, click on ‘Print Server’:



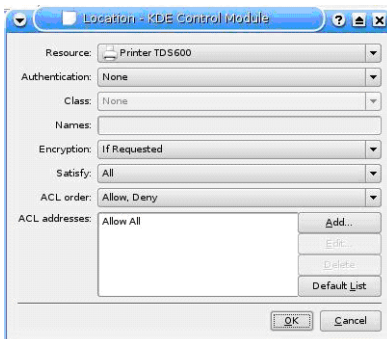
- 2 On the left menu of the ‘CUPS Server Configuration Tool’, select ‘Network’ to open the ‘Network Settings’ window:



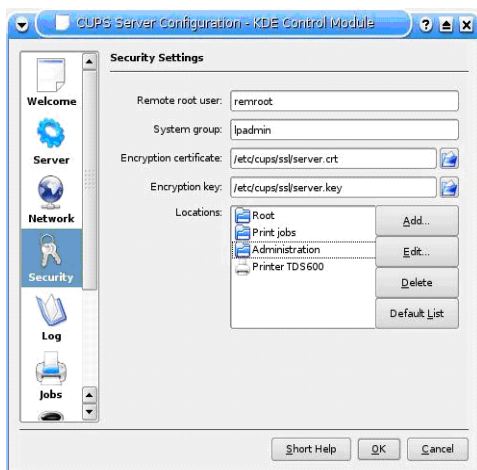
- 3 Delete the existing port from the 'Listen to' field.
- 4 Click the 'Add...' button to listen to a new port.
- 5 Select 'Listen' to a specific IP address, and enter '*631'.
- 6 On the left menu, select 'Security' to open the 'Security Settings' window:



- 7 To add the new created printer to the 'Locations' list, click the 'Add...' button.
- 8 Select the printer in the 'Resource' list:



- 9 Click 'Add...' to allow printing access to the users and click 'OK' to validate.



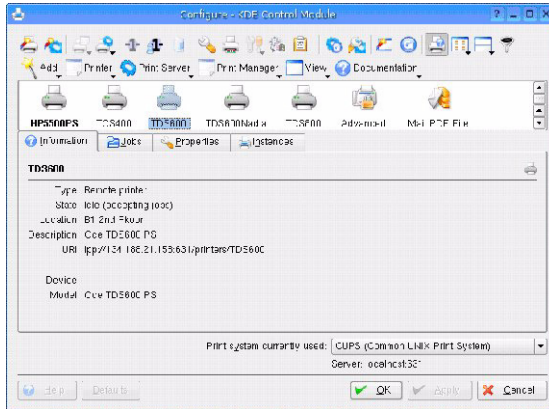
- 10 Click 'OK' to close the 'CUPS Server Configuration' window.

Print from a Linux client workstation

Linux Client / Linux Server Configuration



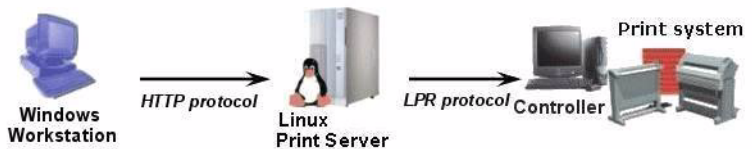
- 1 Launch 'CUPS' locally, it automatically gets all the printers defined and shared on the CUPS print servers.



- 2 Select the printer in the list when sending the print file.
- 3 You can print.

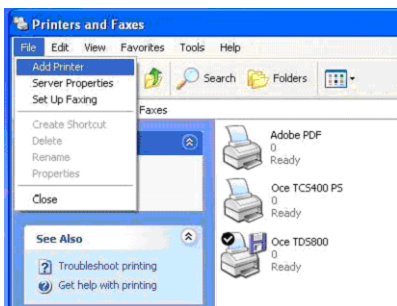
Print from a Windows client workstation

Windows Client / Linux Server Configuration

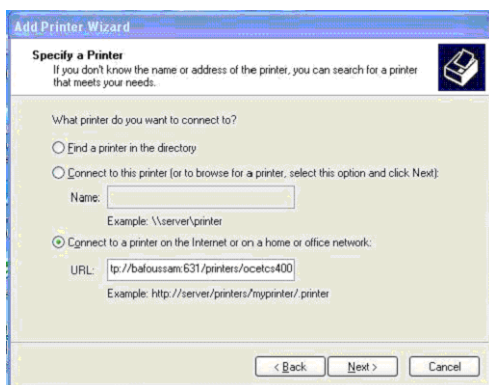


- 1 Install the printer on the Windows client.
- 2 Open the 'Start' / 'Settings' / 'Printers and faxes' window.

- 3 Click on 'File' / 'Add Printer':



- 4 In the 'Add Printer Wizard', specify the printer. Connect to the network printer using the URL 'http://[servername]:631/printers/[printer name]'



Follow the procedure to complete the installation.

Remark about the use of Samba

It is possible to share a Windows 'SMB' printer on a Linux server, and / or use a 'Point and Print' Connection from to the Linux server, but it requires many configurations.

Please refer to the Samba 'HowTo' to set this printing configuration.

Print using a Windows print server

In a Client / Server configuration, you can also print from a Linux client to a Windows print server.

Linux - Client / Windows Server Configuration

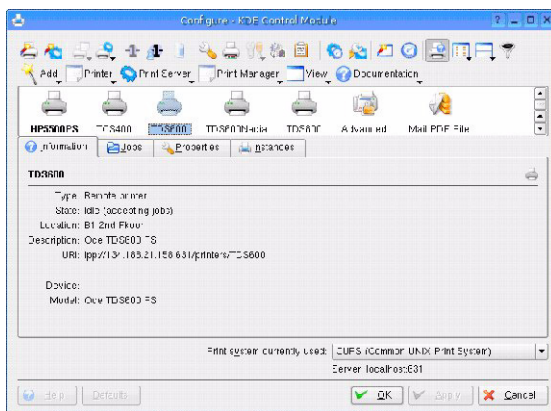


Windows print server installation

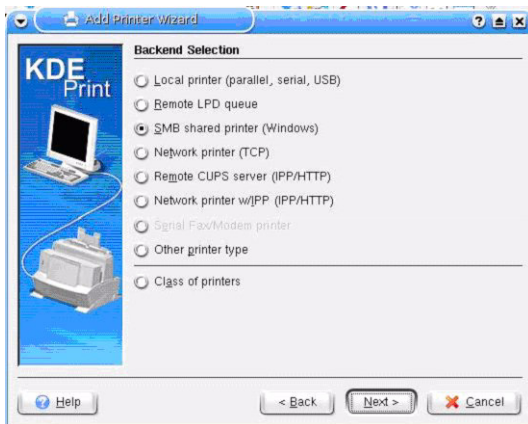
We assume the Windows print server is already setup and running (see the section 'Print server configuration in a Client/Server architecture' on page 46).

Install and configure the Linux client workstation

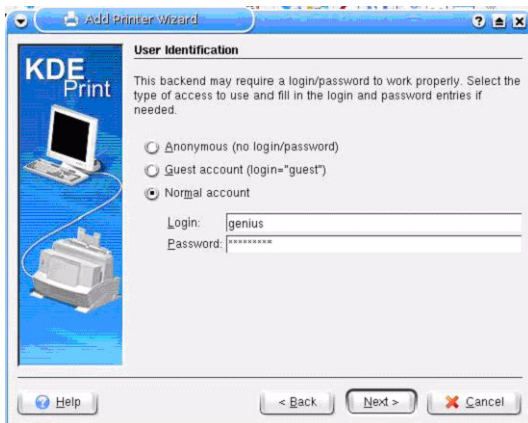
- 1 Launch 'CUPS' locally:



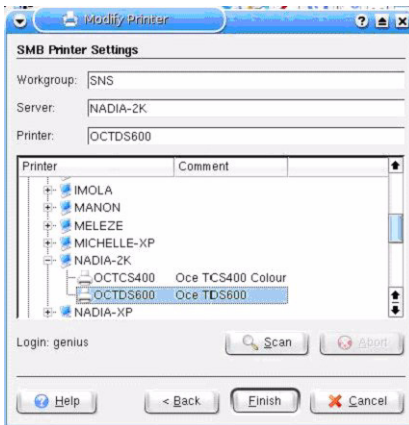
- 2 In the 'Introduction window' of the 'Add Printer Wizard', click 'Next'.
- 3 In the 'Backend Selection' window, choose the 'SMB shared printer (Windows)' and click 'Next':



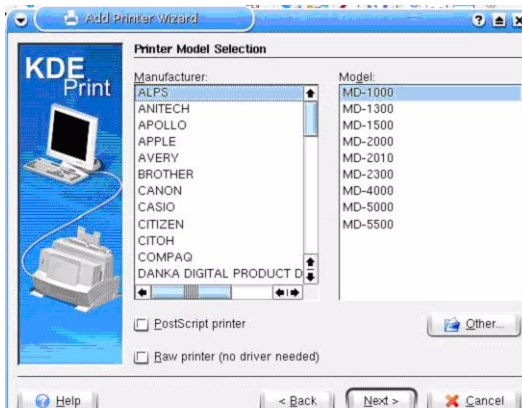
- 4 Fill in 'User identification' (example below is using a registered account) and click 'Next':



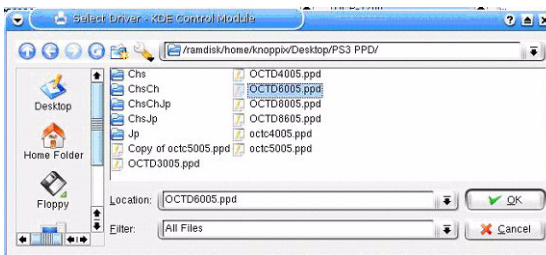
- 5 Select your printer between the available ones (Océ TDS600 within our example) and click ‘Next’:



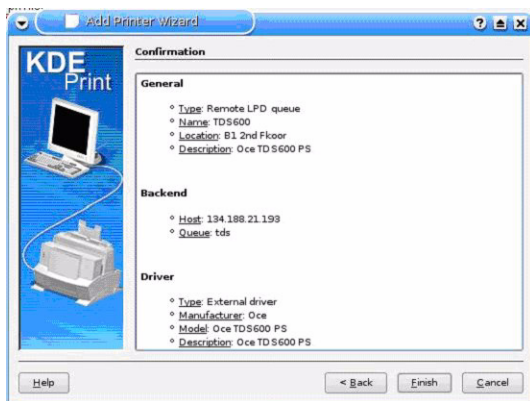
- 6 To install the printer driver, click on ‘Other...’



- 7 Select the specific printer ppd file:



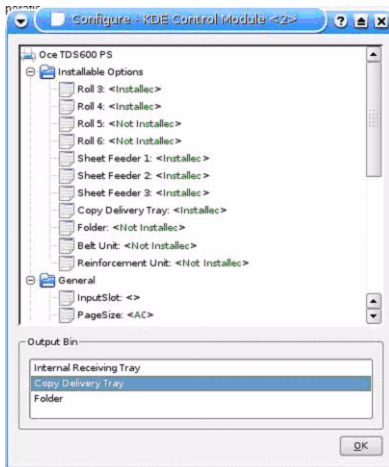
8 Check the information and click 'Finish':



9 You can print a 'Test' page:



10 You can define the driver 'Settings':

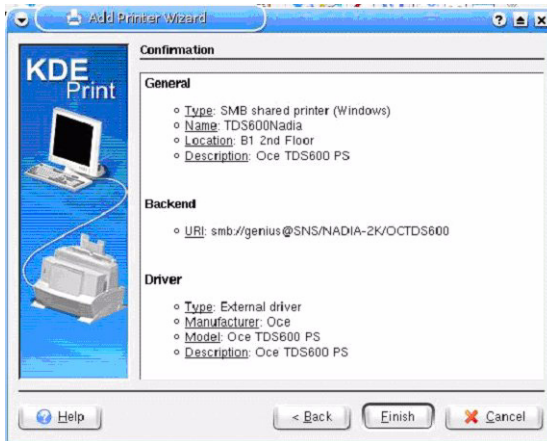


11 Enter the general information about the printer.

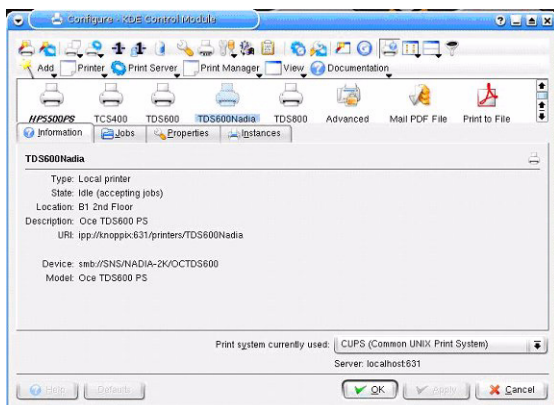
12 You can define banners, quota, allowed users...

13 Verify the general information about the printer.

To complete the installation confirm the information by clicking on 'Finish':



14 You can now print on the Océ TDS600 located on a Windows print server:



Submit jobs via FTP

You can use FTP to transfer job prints.

~ **Submit jobs via FTP on Linux station**

- 1 Open the Terminal.
- 2 Enter the 'ftp' command. You get the 'ftp>' prompt.
- 3 Enter the 'open' command followed by either:
 - the registered name of the remote host ('open hostname').
 - the IP address (e.g. 'open 134.188.21.155').
- 4 Press 'Enter' to connect to the remote FTP server.

The connection with the FTP server is now established and a prompt appears asking for a user name.

Note: *Instead of performing steps 2 and 3 you may also enter 'ftp hostname' in the FTP client.*
- 5 Enter a user name (e.g. 'anonymous'), and press 'Enter' when prompted for the password.

A connection is now set up for the user 'anonymous'.
- 6 Enter 'binary' to set the transmission mode to binary.
- 7 Use the command: 'cd jobs' to open the jobs directory.
- 8 Go to the local directory in which the data you want to print are stored (for example a MISC folder) by using the following command:

```
lcd [here you drag and drop the icon of your MISC folder]
```
- 9 Send the data file (for example: 'test.pdf') via either:
 - the 'put' command and the file name (e.g. 'put test.pdf')
 - the 'put' command and you drag and drop the icon of your 'test.pdf' file (e.g. 'put [^test.pdf]')

Note: *The data is now sent to the input spool directory of the controller, processed and printed.*

Quit FTP by entering the 'bye' command.

Troubleshooting

Impossible to modify CUPS Server settings

Using Red Hat or Fedora distribution of Linux, you may encounter troubles during the configuration of the CUPS server settings (authorization denied).

It is a known bug for these Linux distributions.

~ **Workaround**

- 1 From the 'Security Level Configuration' window, disable SELinux.
- 2 Reboot the computer.
- 3 If needed, enable SELinux again.

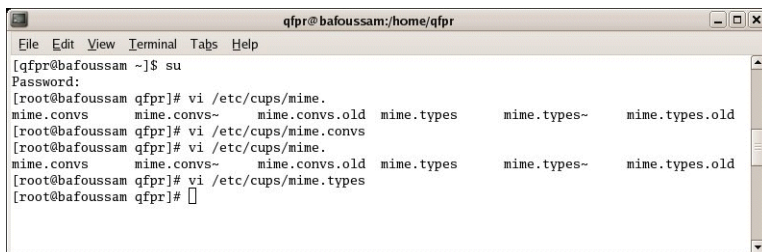
You are able to modify the CUPS server settings.

Impossible to print from the Windows client

As CUPS server expects plain text or PostScript files coming from a client, it may not allow a Windows client to send binary data to a print queue. The server considers it as a denial of service attack on the printer.

To force CUPS to accept binary data from the Windows client, you need to edit and modify 2 files.

- 1 Open the Terminal.
- 2 Log on as Root ('su' command):



```
qfpr@bafoussam/home/qfpr
File Edit View Terminal Tabs Help
[qfpr@bafoussam ~]$ su
Password:
[root@bafoussam qfpr]# vi /etc/cups/mime.
mime.convs mime.convs~ mime.convs.old mime.types mime.types~ mime.types.old
[root@bafoussam qfpr]# vi /etc/cups/mime.convs
mime.convs mime.convs~ mime.convs.old mime.types mime.types~ mime.types.old
[root@bafoussam qfpr]# vi /etc/cups/mime.types
[root@bafoussam qfpr]#
```


3 Edit /etc/cups/mime.types



```
qfpr@bafoussam:/home/qfpr
File Edit View Terminal Tabs Help
image/x-alias                pix short(8,8) short(8,24)
image/x-bitmap               bmp string(0,BM) && !printable(2,14)

#####
#
# Text files...
#

text/html                    html htm printable(0,1024) + \
                             (istring(0,"<HTML>") istring(0,"<!DOCTYPE"))
application/x-cshell          csh printable(0,1024) + string(0,#!) + \
                             (contains(2,80,/csh) contains(2,80,/tcsh))
application/x-perl            pl printable(0,1024) + string(0,#!) + \
                             contains(2,80,/perl)
application/x-shell           sh printable(0,1024) + string(0,#!) + \
                             (contains(2,80,/bash) contains(2,80,/ksh) \
                              contains(2,80,/sh) contains(2,80,/zsh))
text/plain                   txt printable(0,1024)

#####
#
# CUPS-specific types...
#

application/vnd.cups-command  string(0,'#CUPS-COMMAND')
application/vnd.cups-form     string(0,"<CUPSFORM>")
application/vnd.cups-postscript
application/vnd.cups-raster   string(0,"RaSt") string(0,"tSaR")
                             (string(0,<1B>E) + !string(2,<1B>%0B)) \
                             string(0,<1B>@) \
                             (contains(0,128,<1B>%-12345X) + \
                              (contains(0,1024,"LANGUAGE=PCL") \
                               contains(0,1024,"LANGUAGE = PCL"))))

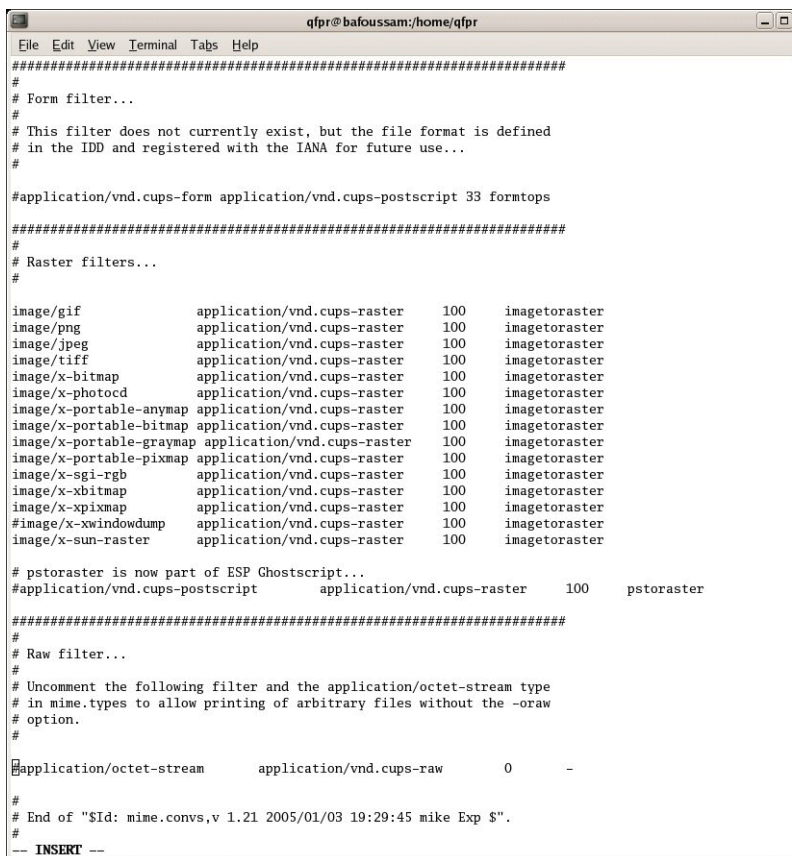
#####
#
# Raw print file support...
#
# Uncomment the following type and the application/octet-stream
# filter line in mime.convs to allow raw file printing without the
# -oraw option.
#
application/octet-stream

#
# End of "$Id: mime.types,v 1.31 2005/01/03 19:29:45 mike Exp $".
#
-- INSERT --
```

4 Remove the comment sharp (#) from the line:

application/octet-stream

5 Edit /etc/cups/mime.convs



```
File Edit View Terminal Tabs Help
#####
#
# Form filter...
#
# This filter does not currently exist, but the file format is defined
# in the IDD and registered with the IANA for future use...
#
#application/vnd.cups-form application/vnd.cups-postscript 33 formtops
#####
#
# Raster filters...
#
image/gif          application/vnd.cups-raster 100  imagetoraster
image/png          application/vnd.cups-raster 100  imagetoraster
image/jpeg         application/vnd.cups-raster 100  imagetoraster
image/tiff         application/vnd.cups-raster 100  imagetoraster
image/x-bitmap     application/vnd.cups-raster 100  imagetoraster
image/x-photocd   application/vnd.cups-raster 100  imagetoraster
image/x-portable-anymap application/vnd.cups-raster 100  imagetoraster
image/x-portable-bitmap application/vnd.cups-raster 100  imagetoraster
image/x-portable-graymap application/vnd.cups-raster 100  imagetoraster
image/x-portable-pixmap application/vnd.cups-raster 100  imagetoraster
image/x-sgi-rgb    application/vnd.cups-raster 100  imagetoraster
image/x-xbitmap    application/vnd.cups-raster 100  imagetoraster
image/x-xpixmap    application/vnd.cups-raster 100  imagetoraster
#image/x-xwindowdump application/vnd.cups-raster 100  imagetoraster
image/x-sun-raster application/vnd.cups-raster 100  imagetoraster

# pstoraster is now part of ESP Ghostscript...
#application/vnd.cups-postscript application/vnd.cups-raster 100  pstoraster
#####
#
# Raw filter...
#
# Uncomment the following filter and the application/octet-stream type
# in mime.types to allow printing of arbitrary files without the -oraw
# option.
#
#application/octet-stream application/vnd.cups-raw 0  -
#
# End of "$Id: mime.convs,v 1.21 2005/01/03 19:29:45 mike Exp $".
#
-- INSERT --
```

6 Remove the comment sharp (#) from the line:

```
application/octet-stream application/vnd.cups-raw 0
```

7 Restart CUPS (see procedure below).

Restart CUPS services

- 1 Open 'Desktop' / 'System settings' / 'Services'.
- 2 Select CUPS.
- 3 Click 'Restart'.

Appendix A

Configuration of the Océ TDS/TCS system

This appendix describes how to configure the Océ TDS/TCS.



General

This appendix is aimed at system administrators and describes how to configure your Océ TDS/TCS system in order to easily integrate it in the Customer's network environment.

The Océ TDS/TCS system can be configured locally or remotely:

- If you configure it locally, nothing needs to be installed since the controller applications (Océ Settings Editor, System Control Panel, ...) are directly accessible on the controller monitor.
- If you configure your Océ TDS/TCS system remotely, you need to install the remote applications called 'Remote Logic' on a client workstation.

Attention: *For the Océ TDS400 system without the 'Scan to File' option or the TCS400 standard configuration, you cannot configure your Océ system locally. You need to use the 'Remote Logic' applications.*

To install 'Remote Logic' on your client workstation and to connect it to the Océ TDS/TCS system, please refer to the corresponding chapter in the Océ TDS/TCS User Manual.

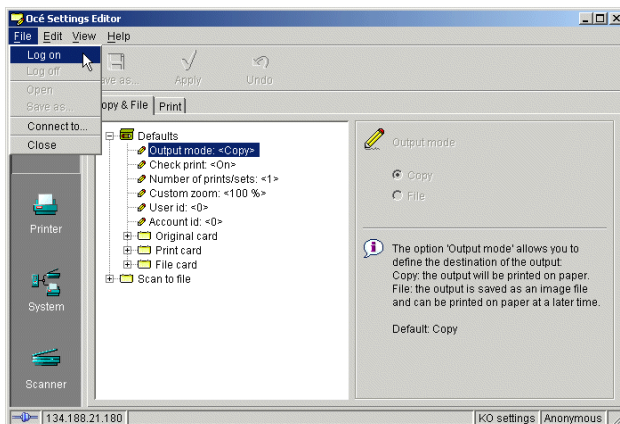
Once 'Remote Logic' is installed on your workstation and connected to your Océ TDS/TCS system, you are ready to configure your system.

Configuration of your system depends on the network environment. Please refer to the corresponding chapters in this connectivity manual.

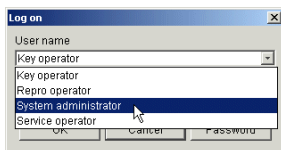
Switch the Océ Settings Editor in SA Mode

This section describes how to switch the ‘Océ Settings Editor’ application in System Administrator mode.

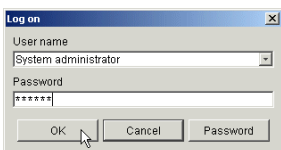
- 1 Once the controller is started, select the ‘Océ Settings Editor’ window.
- 2 From the ‘File’ menu, select ‘Log on’:



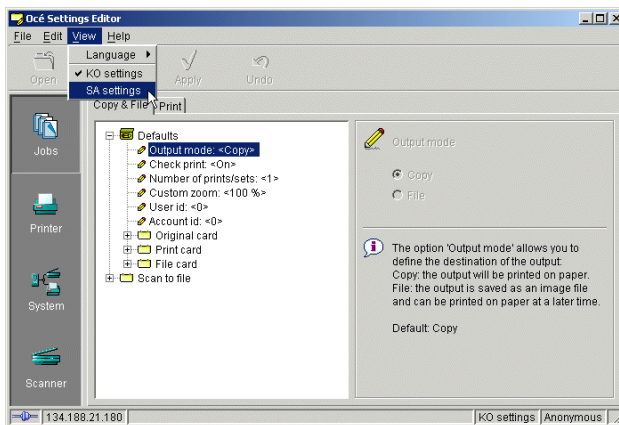
- 3 Select ‘System Administrator’:



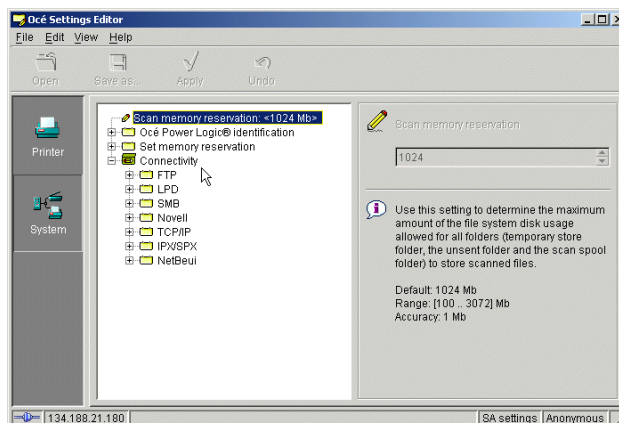
- 4 Enter the System Administrator Password and click ‘OK’.



- 5 Back to the 'Océ Settings Editor' window, you must work in 'SA' mode to modify the Connectivity parameters.
To perform this operation, select 'View' on the Menu bar and click 'SA settings'.

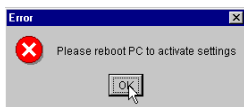


- 6 Click 'System' (left hand side of the window).
You are now able to modify the 'Connectivity' parameters by selecting the 'Connectivity' folder in the tree.



Reboot the controller

Each time you click ‘Apply’ in the ‘Océ Settings Editor’ after having modified a ‘Connectivity’ parameter, a message is displayed which tells you that you must reboot the controller for making the changes active.

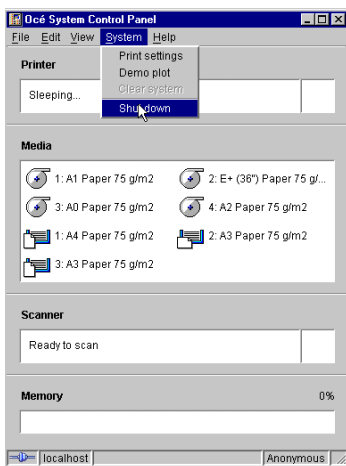


Click ‘OK’ and continue to modify the settings or reboot the controller once all setup is done:

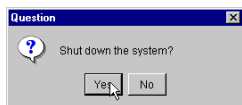
~

Reboot the Controller:

- 1 Switch to the ‘Océ System Control Panel’.
- 2 Select ‘System’ within the ‘Menu’ bar.
- 3 Click ‘Shutdown’:



- 4 A confirmation window is displayed. Click ‘Yes’ to reboot the Controller.



Appendix B

FTP modes

This appendix describes what are the FTP active / passive modes.



Introduction

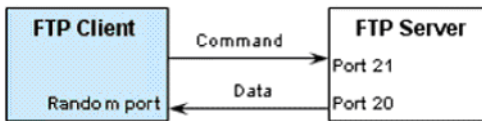
The configuration of the FTP mode has an impact on the way the Océ controllers can manage the FTP connections and on the controller security.

See the FTP modes descriptions and impacts on controller security in the following sections:

FTP in active mode

When an FTP session is established between a client and an FTP server:

- 1 A Command channel (for command communication) is opened by the client to the FTP server.
- 2 A Data communication channel (for Data exchange) is opened by the server to the client on a random port.



Security remark: FTP server is secured since it requires only 1 port opened ('Port 21') and it is up to the server to secure this port.

This configuration is not secured for the client since it requires a range of opened ports (random).

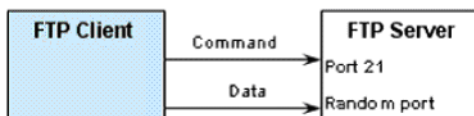
Conclusion for the Océ controller

FTP in active mode is secured when the Océ Controller acts as the **FTP server for the FTP printing and data retrieval** (scan, accounting).

FTP in passive mode

When an FTP session is established between a client and an FTP server:

- 1 A Command channel (for command communication) is opened by the client to the FTP server.
- 2 A Data communication channel (for Data exchange) is opened by the client to the FTP server.



Security remark: This configuration was created to secure the FTP client (versus FTP in active mode) because it does not require opened input ports. However it is less secured for the FTP server since it needs to open not only the port 21, but also a range of ports for data channel.

Conclusion for the Océ controller

FTP in passive mode is secured when the Océ Controller acts as the **FTP client for the Scan to File via FTP**.

Note: See the <http://slacksite.com/other/ftp.html> website to find a complete explanation.

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